



Prepared for

Georgia Power Company
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2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT WANSLEY ASH POND 1 (AP-1)

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CERTIFICATION STATEMENT

This 2023 Annual Groundwater Monitoring and Corrective Action Report, 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, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.



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January 31, 2024
Date

SUMMARY

This summary of the *2023 Annual Groundwater Monitoring and Corrective Action Report* provides the status of groundwater monitoring and corrective action program for the reporting period of January through December 2023 (referred to herein as the “annual reporting period”) 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 United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D).

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. As part of the *2022 Integrated Resource Plan*, the Georgia Public Service Commission approved decertification and retirement of the Plant Wansley coal fired units on August 31, 2022. As part of that plan, Georgia Power has elected to close Plant Wansley AP-1 by removal. In March 2023, a permit application for AP-1 closure by removal was submitted to the Georgia Environmental Protection Division (GA EPD) for further review.



Plant Wansley and the Site

Groundwater at the Site is monitored using a comprehensive well network that meets federal and state monitoring requirements. 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 and assessment of corrective measures (ACM) program were established in

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

January 2018 and October 2022, respectively. During the annual reporting period, the Site remained in assessment monitoring as corrective measures are being evaluated.

During the 2023 annual reporting period, Geosyntec conducted assessment monitoring events in February and August 2023, and supplemental sampling events in September and November 2023 in support of the assessment monitoring program. Groundwater samples were submitted to Eurofins Environment Testing America (Eurofins) for analysis. Per the federal CCR Rule, groundwater data obtained from the semiannual assessment monitoring events were evaluated in accordance with the certified statistical methods. The evaluation identified statistically significant values of select Appendix III² and Appendix IV³ constituents in excess of established groundwater protection standards (GWPS) in select monitoring wells, as summarized in the table below for the semiannual reporting period.

An Alternate Source Demonstration (ASD)⁴ was submitted that presents multiple lines of evidence that the lithium groundwater concentrations detected at 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 the statistical analyses results reported herein, statistically significant levels (SSLs) of Appendix IV constituents were identified for groundwater data collected during the semiannual reporting period that are not addressed by preexisting ASDs. Pursuant to § 257.96, Georgia Power initiated an ACM program on October 27, 2022. An *Assessment of Corrective Measures Report* for AP-1 was submitted to GA EPD on March 24, 2023, per § 257.96. 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 during this evaluation period. 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 An ASD was submitted in January 2019 (ACC, 2019b). An Addendum to the ASD was submitted in November 2020 (Geosyntec, 2020) and revised in February 2021 (Geosyntec, 2021b).

Appendix III Constituent	February 2023	August 2023
Boron	WGWC-8, WGWC-9, WGWC-16, WGWC-20, WGWC-21, WGWC-22, WGWC-24, WGWC-25	WGWC-8, WGWC-9, WGWC-16, WGWC-20, WGWC-21, WGWC-22, WGWC-24, WGWC-25
Calcium	WGWC-8, WGWC-20, WGWC-21	WGWC-8, WGWC-20, WGWC-21
Chloride	WGWC-8, WGWC-16, WGWC-20, WGWC-21, WGWC-24, WGWC-25	WGWC-8, WGWC-16, WGWC-20, WGWC-21, WGWC-24, WGWC-25
Fluoride	WGWC-9, WGWC-15, WGWC-19, WGWC-20, WGWC-21, WGWC-22, WGWC-24	WGWC-9, WGWC-15, WGWC-19, WGWC-20, WGWC-21, WGWC-22, WGWC-24
pH	WGWC-24	WGWC-24
Sulfate	WGWC-8, WGWC-9, WGWC-16, WGWC-20, WGWC-21, WGWC-22, WGWC-24, WGWC-25	WGWC-8, WGWC-9, WGWC-16, WGWC-20, WGWC-21, WGWC-22, WGWC-24, WGWC-25
Total Dissolved Solids	WGWC-8, WGWC-20, WGWC-21, WGWC-22, WGWC-24, WGWC-25	WGWC-8, WGWC-20, WGWC-21, WGWC-22, WGWC-24, WGWC-25
Appendix IV Constituent ⁵	February 2023	August 2023
Beryllium	WGWC-20, WGWC-24	WGWC-20, WGWC-24
Cobalt	WGWC-24	WGWC-24
Lithium	WGWC-19, WGWC-20	WGWC-19, WGWC-20

⁵ A 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; where an MCL has not been established, then a CCR-rule specific GWPS; or background concentrations for constituents where the concentration is greater than the MCL or rule-specified GWPS.

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LIST OF ACRONYMS AND ABBREVIATIONS

ACC	Atlantic Coast Consulting, Inc.
ACM	Assessment of Corrective Measures
AP-1	Ash Pond 1
ASD	Alternate Source Demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
cm/sec	centimeters per second
CSM	conceptual site model
DO	dissolved oxygen
ERM	Environmental Resources Management
Eurofins	Eurofins Environment Testing America
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
i	horizontal hydraulic gradient
K_h	horizontal hydraulic conductivity
MCL	Maximum Contaminant Level
mg/L	milligram per liter
n_e	effective porosity
NELAP	National Environmental Laboratory Accreditation Program
NTU	nephelometric turbidity units
ORP	oxidation-reduction potential
PE	Professional Engineer
Piedmont	Piedmont Physiographic Province
PL	prediction limit
PWR	partially weathered rock
QA/QC	Quality Assurance/Quality Control
SSI	statistically significant increase
SSL	statistically significant level
s.u.	standard unit
TDS	total dissolved solids

Unified Guidance Statistical Analysis of Groundwater Data at RCRA Facilities Unified
Guidance
USEPA United States Environmental Protection Agency

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal 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 *2023 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Wansley (Site) Ash Pond 1 (AP-1) for the reporting period of January through December 2023 (referred to herein as the “annual reporting period”).

Groundwater monitoring and reporting for the CCR unit is performed in accordance with the monitoring requirements of § 257.90 through § 257.95 of the federal CCR Rule, and GA EPD Rules for Solid Waste Management 391-3-4-.10(6). To specify groundwater monitoring requirements, GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the federal CCR Rule. For ease of reference, the federal CCR Rule is cited within this report in lieu of citing both sets of regulations.

Due to statistically significant levels (SSLs) of beryllium and lithium identified in the *2022 Semiannual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2022), Georgia Power initiated an assessment of corrective measures (ACM) program for AP-1 in October 2022, within 90 days of SSL notification in accordance with § 257.96. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater associated with AP-1 in accordance with the assessment monitoring program established for AP-1 in 2018, including semiannual monitoring and reporting pursuant to § 257.90 through § 257.95 of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a).

During this annual reporting period, SSLs of Appendix IV constituents beryllium, cobalt, and lithium were identified at the Site. Groundwater quality and flow data from the current reporting period indicate that the identified SSLs of beryllium, cobalt, and lithium are horizontally delineated to below their corresponding groundwater protection standards (GWPS) and contained within the property boundary or resolved with a previously submitted alternate source demonstration (ASD) (Geosyntec, 2020, 2021b). The data also confirms vertical delineation of the beryllium SSL. Efforts to evaluate and confirm vertical delineation of cobalt and lithium to below their respective GWPS are ongoing by Georgia Power.

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. As part of the *2022 Integrated Resource Plan*, the Georgia Public Service Commission approved decommissioning of the Plant Wansley coal fired units on August 31, 2022. As part of that plan, Georgia Power has elected to close Plant Wansley AP-1 by removal. In March 2023, a permit application for AP-1 closure by removal was submitted to GA EPD for further review.

1.2 Regional Geology and Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at AP-1 as described in the *Hydrogeologic Assessment Report Revision 03 – Plant Wansley* (HAR Rev 03) (Geosyntec, 2023c) submitted to GA EPD in support of the closure permit application.

1.2.1 Regional and Site Geology

Plant Wansley is located within the Piedmont Physiographic Province (Piedmont) 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 AP-1, shallower water table elevations are noted within the saprolite and PWR, and hydraulic gradients indicate localized flow northward (or inward) toward 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 aperture 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, referred to as “detection monitoring wells”, were selected based on the characterization of site-specific hydrogeologic conditions.

As part of the assessment monitoring program, assessment monitoring wells have been installed since 2020 to supplement the pre-existing detection monitoring wells and characterize the nature and extent of beryllium and lithium in groundwater downgradient of AP-1. Pursuant to § 257.95(g)(1)(iv), the wells classified as “assessment monitoring wells” will continue to be sampled concurrently with the detection monitoring well network as part of the ongoing assessment groundwater monitoring program.

An on-site network of piezometers is used in combination with the detection and assessment monitoring well networks to gauge groundwater levels to define groundwater flow direction and gradients. The piezometers may be sampled as needed to support the ACM program.

The locations of the detection monitoring wells, assessment monitoring 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 the annual reporting period 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

One assessment monitoring well (WGWC-28D) was installed in August 2023 to provide additional data on the nature and extent of SSL constituents in the vicinity of WGWC-20. The location of the well is shown on **Figure 2**. A well installation report that includes detailed boring and well construction logs for the installation of this well are provided in **Appendix A** and was submitted to GA EPD under separate cover in October 2023 (Geosyntec, 2023b). With the installation of WGWC-28D, WGWC-26D was converted from an “assessment monitoring well” to a “piezometer”. In addition to the installation of WGWC-28D, PZ-26D was reclassified from a “piezometer” to an “assessment monitoring well” and sampled to provide additional data on the nature and extent of beryllium and cobalt in the vicinity of WGWC-24.

The well and piezometer networks are inspected semiannually to evaluate if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In February and August 2023, the networks were inspected, necessary corrective actions were identified and subsequently completed, as documented in **Appendix B**. This documentation was prepared under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Georgia Power initiated an assessment monitoring program for groundwater at AP-1 in January 2018 based on statically significant increases (SSIs) of Appendix III constituents documented in the *2017 Annual Groundwater Monitoring and Corrective Action Report* (ERM, 2018). A notice of assessment monitoring was placed in the operating record on May 15, 2018. Currently identified SSLs of Appendix IV constituents exceeding their respective GWPS at AP-1 are beryllium in WGWC-20 and WGWC-24, cobalt in WGWC-24, and lithium in WGWC-19⁶ and WGWC-20.

Pursuant to § 257.96, an ACM program was initiated for AP-1 in October 2022. An *Assessment of Corrective Measures Report* (ACM Report) for AP-1 was submitted to GA

⁶ The SSL of lithium in WGWC-19 is addressed with the ASD and the ASD Addendum previously submitted to GA EPD (ACC, 2019b; Geosyntec, 2020; Geosyntec, 2021b). Details of the ASD are discussed in Section 5.1.

EPD on March 24, 2023 (Geosyntec, 2023a). In accordance with § 257.96(b), groundwater continues to be monitored at AP-1 under the assessment monitoring program while the ACM phase is implemented.

In support of the routine assessment monitoring program, semiannual assessment monitoring events were conducted in February and August 2023. A supplemental sampling event was conducted in September 2023 to sample newly installed WGWC-28D. An additional supplemental sampling event was conducted in November 2023 to sample WGWC-28D for select parameters. The wells sampled and the dates the samples were collected at AP-1 during the annual reporting period are summarized in **Table 2**. Details of the events and analytical results are discussed in Section 3.

2.3 Additional Groundwater and Surface Water Sampling

Supplemental groundwater samples were collected from the detection monitoring well network and interstitial piezometers (PZ-A2S, PZ-A2M, and PZ-A2D) during the February 2023 assessment monitoring event and were analyzed for major cations (calcium, magnesium, potassium, and sodium), major anions (chloride, sulfate, and alkalinity [i.e., bicarbonate, carbonate, total]), iron, manganese, and sulfide. In addition, groundwater samples collected from interstitial wells were analyzed for Appendix III parameters. These data were collected in support of evaluating the geochemical composition of the groundwater and interstitial water will be discussed as part of the ACM program. The laboratory reports associated with the data are provided in **Appendix C**.

In support of risk evaluation efforts, Georgia Power collected surface water samples from the Chattahoochee River at locations upstream and downstream of AP-1 in May and August 2023. The field sampling forms and laboratory report associated with the surface water sampling are provided in **Appendix C**.

3.0 SAMPLING METHODOLOGY AND 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 assessment monitoring program conducted at AP-1 during the annual reporting period.

3.1 Groundwater Level Measurement

A synoptic round of depth-to-groundwater-level measurements were recorded from the AP-1 wells and piezometers during the February and August 2023 assessment monitoring events and used to calculate the corresponding groundwater elevations, which are presented in **Table 3**. The February and August 2023 elevations reported are generally representative of the groundwater elevations reported for prior monitoring events.

The groundwater elevation data were used to prepare potentiometric surface maps for the February and August 2023 events, which are presented on **Figures 3** and **4**, respectively. Groundwater in the AP-1 area flows under the influence of topography and generally flows inward towards AP-1 with the exception of a minor component of flow from AP-1 in a localized area near the eastern corner of AP-1. This groundwater flow pattern is consistent with previous observations.

3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater hydraulic gradients within the uppermost aquifer at AP-1 were calculated using the groundwater elevation data from the February and August 2023 gauging events. In February and August 2023, hydraulic gradients were calculated along the flow paths between PZ-01 and WGWC-17 and between PZ-10 and WGWC-19. The supporting calculations are presented in **Table 4** and the locations of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figures 3** and **4**. For the annual reporting period, the calculated average hydraulic gradient between PZ-01 and WGWC-17 is 0.083 feet per foot (ft/ft); the average hydraulic gradient between PZ-10 and WGWC-19 is 0.096 ft/ft.

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

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

where:

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

K_h = Horizontal hydraulic conductivity $\left(\frac{\text{feet}}{\text{day}}\right)$

i = Horizontal hydraulic gradient $\left(\frac{\text{feet}}{\text{foot}}\right) = \frac{h_1 - h_2}{L}$

h_1 and h_2 = Groundwater elevation at location 1 and 2

L = Distance between location 1 and 2

n_e = Effective porosity

The average horizontal hydraulic conductivity (K_h) for AP-1 of 9.5×10^{-5} centimeters per second (cm/sec) (0.27 feet per day [ft/day]) was computed from previous slug test data obtained from testing of wells at AP-1 (Geosyntec, 2023c). An estimated effective porosity of 0.25 is used to represent average conditions at AP-1, derived based on review of literature (Driscoll, 1986; Freeze and Cherry, 1979), observed site lithology, and professional judgement. With these variables defined, and accounting for the hydraulic gradients discussed above for the February and August 2023 gauging events, the average calculated groundwater flow velocity for the annual reporting period was approximately 0.089 ft/day (PZ-01 to WGWC-17) and 0.103 ft/day (PZ-10 to WGWC-19), for an average groundwater flow velocity in the vicinity of AP-1 of 0.096 ft/day, or approximately 35 ft/year. The observed groundwater flow velocities are generally consistent with historical observations.

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 based on the groundwater level). Non-dedicated bladder pump and peristaltic pump samples were collected using new disposable polyethylene tubing; all non-dedicated tubing was disposed of following the sampling event. All non-disposable equipment was decontaminated before use and between well locations.

An in-situ water quality field meter (SmarTroll, Aqua TROLL, or similar) was used to monitor and record field water quality parameters [i.e., pH, conductivity, dissolved

oxygen (DO), temperature, and oxidation reduction potential (ORP)] during well purging to verify stabilization prior to sampling. Turbidity was measured using a LaMotte 2100Q (or similar) portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- pH \pm 0.1 standard units (s.u.)
- Conductivity \pm 5 %
- \pm 0.2 milligrams per liter (mg/L) or \pm 10% (whichever is greater) for 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.

Following purging, and once stabilization was achieved, unfiltered samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Eurofins Environment Testing America (Eurofins) in Savannah, Georgia, following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the 2023 annual reporting period are provided in **Appendix C**.

3.4 Laboratory Analyses

Laboratory analyses were performed by Eurofins, which is accredited by the National Environmental Laboratory Accreditation Program (NELAP). Eurofins maintains a NELAP certification for the Appendix III and Appendix IV constituents and the geochemical parameters analyzed for this project. Analytical methods used for groundwater sample analyses, and associated results, are listed in the analytical laboratory reports included in **Appendix C**. The groundwater analytical results from the annual reporting period are summarized in **Table 5**.

3.5 Quality Assurance and Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring events at the minimum 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 appropriately preserved laboratory-supplied

sample containers 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 necessary, the data were qualified with supporting documentation and justifications. The validated data meet project objectives and the associated data validation reports are provided in **Appendix C** 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 GWPS for the Appendix IV constituents and completed statistical analyses of the Appendix IV groundwater monitoring data obtained during the annual reporting period. The data were analyzed by Groundwater Stats Consulting (GSC); the report generated from the analyses are provided in **Appendix D**.

4.1 Statistical Methods

Groundwater data from the annual reporting period were statistically analyzed in accordance with the Professional Engineer-certified (PE-certified) Statistical Analysis Method Certification (October 2017, revised January 2020) (ERM, 2017; ACC, 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 assess if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis report 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 PLs pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the background limit for each constituent to assess whether there are SSIs. An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient detection monitoring well exceeds the constituent's associated PL. The 1-of-2 resample plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective PL, no exceedance is declared.

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 detection 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 SSLs of Appendix IV constituents. Due to previous non-routine sampling, some Appendix IV constituents at a well location have differing number of analytical data points.

The confidence intervals are compared to the 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 defined by the below criteria. These criteria were adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022.

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

Following the above 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 discussion presented in **Appendix D**, groundwater conditions have not returned to background levels and assessment monitoring should continue. Based on the statistical analyses of Appendix IV constituents, the following constituent(s) exceeded the GWPS during the annual reporting period:

4.2.1 February 2023 Data

- Beryllium: WGWC-20 and WGWC-24
- Cobalt: WGWC-24
- Lithium: WGWC-19 and WGWC-20

4.2.2 August 2023 Data

- Beryllium: WGWC-20 and WGWC-24
- Cobalt: WGWC-24
- Lithium: WGWC-19 and WGWC-20

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix D**). No statistically significant trends were identified for beryllium, cobalt, or lithium in WGWC-20 or WGWC-24.

4.2.3 Summary of Statistical Analyses

The SSLs identified for the annual reporting period are generally consistent with the 2022 annual reporting period, with the following exceptions:

- SSLs of beryllium and cobalt in WGWC-24 were first identified during this reporting period following collection of a sufficient number of groundwater samples (minimum of four independent samples) from WGWC-24 to complete statistical analysis of the data.

The lithium SSL in WGWC-19 is addressed with the ASD and the ASD Addendums previously submitted to GA EPD (ACC, 2019b; Geosyntec, 2020; Geosyntec, 2021b), as explained in Section 5 below.

5.0 NATURE AND EXTENT

Based on the groundwater data presented herein, beryllium and lithium SSLs in WGWC-20 have been horizontally delineated by WGWC-27 to below the established GWPS (0.004 mg/L and 0.040 mg/L, respectively) and are contained within the property boundary. Vertical delineation of beryllium in WGWC-20 to below the established GWPS was accomplished by WGWC-28D while vertical delineation of lithium in WGWC-20 is currently ongoing. Ongoing review of the groundwater flow direction in the vicinity of WGWC-24 indicates groundwater is flowing inward to AP-1, suggesting horizontal delineation is complete for beryllium and cobalt in WGWC-24 and vertical delineation of cobalt is ongoing. Georgia Power will continue to monitor the assessment monitoring wells and adaptively manage the Site as new data become available.

5.1 Alternate Source Demonstration

In accordance with § 257.95(g)(3), Georgia Power prepared an 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 WGWC-19⁷ 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 and Corrective Action Report* (Geosyntec, 2021a). A revised ASD Addendum was submitted to GA EPD under separate cover in February 2021 (Geosyntec, 2021b). The ASD Addendums present supplemental data collected since submittal of the 2019 ASD, which provide additional lines of evidence to demonstrate that the SSL of lithium identified at WGWC-19 is associated with naturally occurring lithium within rock formations at the Site.

⁷ SSLs of lithium in excess of the prior state GWPS (0.009 mg/L) were previously identified in WGWC-8, WGWC-9, and WGWC-10 and detailed in the submitted ASD and ASD Addendums (ACC, 2019b; Geosyntec, 2020; Geosyntec, 2021b). However, all previously identified SSLs in these three wells have at all times complied with the current GWPS (0.040 mg/L), as established by GA EPD on February 22, 2022.

6.0 MONITORING PROGRAM STATUS

6.1 Assessment Monitoring Status

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 while ACM efforts are implemented to address SSLs of beryllium, cobalt, and lithium in select AP-1 wells. Pursuant to § 257.95(g)(1)(iv), assessment monitoring wells installed in support of the ACM program will be sampled as part of the ongoing assessment groundwater monitoring program.

6.2 Assessment of Corrective Measures

The ACM efforts completed during the second half of this annual reporting period are presented in the *Semiannual Remedy Selection and Design Progress Report* provided in **Appendix E**. The semiannual progress report summarizes:

- (i) The current conceptual site model (CSM) applicable to evaluating groundwater corrective measures proposed in the ACM Report (Geosyntec, 2023a).
- (ii) Summary of work completed to date to achieve delineation of constituents exceeding GWPS and a summary of data collected to date to support remedy selection.
- (iii) The status of evaluating applicable corrective measures at the Site.
- (iv) The planned activities and anticipated schedule for the following semiannual reporting period.

In accordance with § 257.97(a), Georgia Power will include future semiannual progress reports with each groundwater monitoring and corrective action report to document results associated with additional data collection, and present progress toward selection and design of a groundwater remedy.

7.0 CONCLUSIONS AND FUTURE ACTIONS

This *2023 Annual Groundwater Monitoring and Corrective Action Report* for Plant Wansley AP-1 was prepared to fulfill the requirements of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10. Statistical analyses of the groundwater monitoring data for the AP-1 well network confirmed the continued presence of SSLs of beryllium in WGWC-20 and WGWC-24, cobalt in WGWC-24, and lithium in WGWC-19 and WGWC-20 above the corresponding GWPS.

Based on the most current data from this reporting period, as described in Section 5, the SSLs of beryllium and lithium in WGWC-20 are horizontally delineated downgradient to below the GWPS. Additionally, the SSL of beryllium in WGWC-20 is vertically delineated to below the GWPS. Evaluation of the vertical delineation of lithium in WGWC-20 is ongoing.

Initial review of the groundwater flow direction in the vicinity of WGWC-24 indicates groundwater is flowing inward to AP-1, suggesting horizontal delineation is complete for beryllium and cobalt in WGWC-24; the data also confirms vertical delineation of the beryllium SSL in this well. However, vertical delineation of cobalt in WGWC-24 is still being evaluated. Georgia Power will continue to monitor the assessment monitoring wells and adaptively manage the Site as new data become available.

The 2018 ASD and 2021 ASD Addendum present multiple lines of evidence that illustrate that the lithium SSL identified in groundwater at WGWC-19 are associated with naturally occurring lithium within rock formations at the Site and are not originating from AP-1.

In accordance with GA EPD Rule 391-3-4-.10(6) and § 257.96, Georgia Power initiated an ACM program for the Site on October 27, 2022. Georgia Power will continue to monitor AP-1 groundwater under the assessment monitoring program as aspects of the ACM program are implemented to address the Appendix IV SSLs. The next routine semiannual assessment monitoring event is scheduled for February 2024.

8.0 REFERENCES

- Atlantic Coast Consulting, Inc. (ACC), 2019a. *2018 Annual Groundwater Monitoring and Corrective Action Report - Plant Wansley Ash Pond 1 (AP-1)*. January 2019.
- ACC, 2019b, *Alternate Source Demonstration – Plant Wansley Ash Pond*. January 2019.
- ACC, 2020. *Statistical Analysis Method Certification – Georgia Rule 391-3-4-.10(6) and 40 CFR §257.93(f) – Plant Wansley Ash Pond (AP-1) – Georgia Power Company*. January 2020.
- Driscoll, F.G.. 1986, *Groundwater and Wells*. 2nd Edition, Johnson Screens, St. Paul, MN. 1986.
- Environmental Resources Management (ERM), 2017. *Statistical Analysis Method Certification – 40 C.F.R. §257.93(f) – Plant Wansley Ash Pond (AP-1) – Georgia Power Company*. October 2017.
- ERM, 2018. *2017 Annual Groundwater Monitoring and Corrective Action Report - Plant Wansley Ash Pond*. January 2018.
- Freeze, R.A. and Cherry, J.A., 1979, *Groundwater*. Prentice-Hall, Englewood Cliffs, NJ. 1979.
- Geosyntec, 2020. *Alternative Source Demonstration Addendum – Lithium – Plant Wansley Ash Pond 1 (AP-1)*. November 2020.
- Geosyntec, 2021a. *2020 Annual Groundwater Monitoring and Corrective Action Report – Plant Wansley Ash Pond 1 (AP-1)*. January 2021.
- Geosyntec, 2021b. *Alternative Source Demonstration Addendum - Lithium – Plant Wansley Ash Pond 1 (AP-1)*. February 2021.
- Geosyntec, 2022. *2022 Semiannual Groundwater Monitoring and Corrective Action Report – Plant Wansley Ash Pond 1 (AP-1)*. August 2022.
- Geosyntec, 2023a. *Assessment of Corrective Measures Report – Plant Wansley Ash Pond 1 (AP-1)*. March 2023.
- Geosyntec, 2023b. *Well Design, Installation, and Development Report – Plant Wansley Ash Pond 1 (AP-1)*. October 2023.

Geosyntec, 2023c. *Hydrogeologic Assessment Report (Revision 03) – Plant Wansley*. March 2023.

Sanitas: Groundwater Statistical Software, v. 9.6.05 (2018). Sanitas Technologies[©], Boulder, CO.

USEPA, 2009. *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance*. Office of Resource Conservation and Recovery – Program Implementation and Information Division. March 2009.

USEPA, 2011. *Region IV Data Validation Standard Operating Procedures*. Science and Ecosystem Support Division. Region IV. Athens, GA. September 2011.

USEPA, 2017. *National Functional Guidelines for Inorganic Superfund Methods Data Review*. Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [EPA-540-R-2017-001]. Washington, DC. January 2017.

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⁾	Easting ⁽¹⁾	Ground Surface Elevation ^(1,2) (ft)	Top of Casing Elevation ⁽¹⁾ (ft)	Top of Screen Elevation ⁽¹⁾ (ft)	Bottom of Screen Elevation ⁽¹⁾ (ft)	Well Depth (ft BTOC) ⁽³⁾	Screen Interval Length (ft)
Detection Monitoring Well										
WGWA-1	Upgradient	10/21/2015	1250656.10	2035580.71	780.37	782.93	663.37	653.37	129.56	10
WGWA-2	Upgradient	10/16/2015	1251556.40	2035590.11	755.77	758.23	665.77	655.77	102.46	10
WGWA-3	Upgradient	12/15/2014	1240848.21	2022350.10	826.63	828.91	820.23	810.23	18.68	10
WGWA-4	Upgradient	01/13/2015	1240879.58	2022339.66	831.33	834.34	780.43	760.43	74.31	20
WGWA-5	Upgradient	12/23/2014	1241997.94	2022368.85	899.28	902.15	888.88	878.88	23.66	10
WGWA-6	Upgradient	01/13/2015	1241932.02	2022360.58	894.62	897.13	822.62	792.62	104.91	30
WGWA-7	Upgradient	12/22/2014	1243338.63	2023843.81	894.49	897.33	867.69	857.69	40.04	10
WGWA-18	Upgradient	12/16/2014	1244592.56	2025580.71	875.47	878.02	848.47	838.47	39.95	10
WGWC-8	Downgradient	10/29/2015	1242929.40	2029644.58	777.70	780.08	730.70	720.70	59.38	10
WGWC-9	Downgradient	12/04/2014	1242801.12	2029115.75	809.33	812.03	760.93	750.93	61.50	10
WGWC-10	Downgradient	10/27/2015	1240971.96	2026725.61	809.61	812.38	673.61	663.61	148.77	10
WGWC-11	Downgradient	12/08/2014	1240860.18	2025773.39	821.44	823.96	783.14	773.14	51.22	10
WGWC-12	Downgradient	10/22/2015	1240827.68	2025755.99	820.57	823.04	756.57	746.57	76.47	10
WGWC-13	Downgradient	11/04/2015	1240610.93	2024585.91	807.32	809.78	734.32	714.32	95.46	20
WGWC-14A	Downgradient	01/31/2017	1240604.54	2024599.63	808.20	810.94	778.20	768.20	42.74	10
WGWC-15	Downgradient	11/11/2015	1240483.16	2023912.92	802.03	804.69	758.53	748.53	56.16	10
WGWC-16	Downgradient	11/11/2015	1240480.46	2023903.77	801.72	804.21	779.72	769.72	34.50	10
WGWC-17	Downgradient	11/06/2015	1240052.06	2022623.82	813.36	816.00	730.36	720.36	95.94	10
WGWC-19	Downgradient	10/28/2015	1241851.51	2028949.19	780.60	783.42	698.60	688.60	94.82	10
WGWC-20	Downgradient	09/29/2020	1243350.76	2029769.43	804.88	807.95	775.18	765.18	43.17	10
WGWC-21	Downgradient	10/02/2020	1242139.33	2028512.65	831.79	834.41	773.11	763.11	71.70	10
WGWC-22	Downgradient	10/18/2020	1241695.25	2028116.05	807.00	810.37	776.92	766.92	43.85	10
WGWC-23	Downgradient	10/04/2020	1240769.79	2027414.58	820.50	823.80	780.40	770.40	53.80	10
WGWC-24	Downgradient	10/17/2020	1239916.68	2024139.82	802.22	804.80	774.43	764.43	40.77	10
WGWC-25	Downgradient	10/28/2020	1240184.18	2023616.69	805.98	808.98	779.51	769.51	39.87	10
Piezometer										
PZ-01	Piezometer	12/12/2014	1240249.86	2022319.93	853.91	856.72	817.81	807.81	49.31	10
PZ-04	Piezometer	12/22/2014	1242592.03	2023595.91	886.13	889.01	878.93	868.93	20.48	10
PZ-06	Piezometer	12/17/2014	1244382.89	2024661.39	912.30	915.15	898.60	888.60	26.95	10
PZ-08	Piezometer	12/15/2014	1245514.59	2026807.30	864.65	867.29	836.85	826.85	40.84	10
PZ-10	Piezometer	12/05/2014	1242058.41	2028554.29	829.26	832.02	810.46	800.46	31.96	10
PZ-11	Piezometer	12/05/2014	1240578.87	2026933.09	820.21	823.09	799.71	789.71	33.78	10
PZ-12	Piezometer	12/08/2014	1240837.96	2026731.01	816.17	818.74	779.37	769.37	49.78	10
PZ-15	Piezometer	12/10/2014	1240457.61	2025105.38	824.59	826.86	795.79	785.79	41.46	10
PZ-16	Piezometer	12/11/2014	1239419.77	2023662.22	798.05	800.70	785.05	775.05	26.15	10
PZ-17	Piezometer	12/11/2014	1239270.02	2023086.50	828.54	831.01	789.84	779.84	51.57	10
PZ-18	Piezometer	12/11/2014	1239569.52	2022299.20	812.10	814.51	788.20	778.20	36.71	10
PZ-20	Piezometer	01/31/2017	1243496.86	2030132.73	784.45	787.30	759.45	749.45	37.85	10
PZ-23D	Piezometer	10/02/2020	1242139.53	2028520.87	831.89	834.32	749.92	739.92	94.80	10
PZ-27D	Piezometer	10/15/2020	1240190.93	2023620.36	806.22	809.28	737.96	727.96	81.72	10
PZ-28	Piezometer	10/29/2020	1240066.02	2022624.73	813.57	816.18	753.68	743.68	72.90	10
PZ-29S	Piezometer	10/31/2020	1244317.13	2028839.68	805.80	805.30	770.28	760.28	45.42	10
PZ-29D	Piezometer	11/01/2020	1244304.90	2028853.29	805.77	805.24	688.69	678.69	126.95	10
WAMW-1	Piezometer	09/16/2018	1241843.66	2028944.63	780.05	782.66	668.40	658.40	124.60	10
WAMW-2	Piezometer	09/14/2018	1241547.56	2028806.27	768.39	770.82	694.19	684.19	86.92	10
WGWC-14	Piezometer	11/04/2015	1240621.86	2024584.92	806.87	809.50	764.87	754.87	54.63	10
WGWC-26D	Piezometer	9/26/2022	1243343.66	2029758.85	805.06	808.23	749.31	739.31	68.92	10
Assessment Monitoring Well										
PZ-26D	Assessment	10/12/2020	1239919.45	2024146.35	802.31	804.93	735.23	725.23	80.10	10
WGWC-27	Assessment	9/27/2022	1243215.51	2029878.92	778.05	780.54	749.15	739.15	41.39	10
WGWC-28D	Assessment	8/11/2023	1243337.13	2029751.04	805.36	808.24	609.06	599.06	209.70	10

Notes:

ft = feet

ft BTOC = feet below top of casing

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). 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. Survey of WGWC-26D and WGWC-27 was completed by GEL Solutions and certified on October 13, 2022. Survey of WGWC-28D was completed by GEL Solutions and certified September 5, 2023.

(2) Ground surface elevation defined at the survey nail installed within the well pad.

(3) 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 14 - 17, 2023	August 11 - 17, 2023	September 26, 2023	November 7, 2023	Status of Monitoring Well
Purpose of Sampling Event:		Assessment	Assessment	Supplemental	Supplemental	
<i>Detection 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	Downgradient	X	X	--	--	Assessment
WGWC-21	Downgradient	X	X	--	--	Assessment
WGWC-22	Downgradient	X	X	--	--	Assessment
WGWC-23	Downgradient	X	X	--	--	Assessment
WGWC-24	Downgradient	X	X	--	--	Assessment
WGWC-25	Downgradient	X	X	--	--	Assessment
<i>Assessment Monitoring Well</i>						
PZ-26D	--	--	X	--	--	Assessment
WGWC-26D ⁽¹⁾	--	X	X	--	--	Assessment
WGWC-27	--	X	X	--	--	Assessment
WGWC-28D	--	--	--	X	X	Assessment

Notes:

-- = Not applicable

(1) WGWC-26D was reclassified from assessment monitoring well to piezometer after the February 2023 semiannual groundwater monitoring event.

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

Well ID	Top of Casing Elevation ⁽¹⁾ (ft)	February 13, 2023		August 7-8, 2023	
		Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)	Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)
Detection Monitoring Well					
WGWA-1	782.93	25.66	757.27	30.38	752.55
WGWA-2	758.23	8.19	750.04	14.20	744.03
WGWA-3	828.91	2.62	826.29	3.90	825.01
WGWA-4	834.34	4.25	830.09	6.50	827.84
WGWA-5	902.15	13.47	888.68	17.52	884.63
WGWA-6	897.13	16.65	880.48	17.77	879.36
WGWA-7	897.33	26.82	870.51	27.56	869.77
WGWA-18	878.02	19.79	858.23	20.52	857.50
WGWC-8	780.08	2.12	777.96	7.47	772.61
WGWC-9	812.03	19.11	792.92	20.56	791.47
WGWC-10	812.38	20.80	791.58	21.58	790.80
WGWC-11	823.96	27.13	796.83	27.76	796.20
WGWC-12	823.04	26.46	796.58	27.29	795.75
WGWC-13	809.78	18.71	791.07	24.05	785.73
WGWC-14A	810.94	19.29	791.65	24.23	786.71
WGWC-15	804.69	18.10	786.59	19.39	785.30
WGWC-16	804.21	17.41	786.80	18.88	785.33
WGWC-17	816.00	28.08	787.92	29.16	786.84
WGWC-19	783.42	19.70	763.72	20.76	762.66
WGWC-20	807.95	27.36	780.59	32.43	775.52
WGWC-21	834.41	48.77	785.64	50.33	784.08
WGWC-22	810.37	15.22	795.15	20.46	789.91
WGWC-23	823.80	30.26	793.54	32.63	791.17
WGWC-24	804.80	11.61	793.19	17.42	787.38
WGWC-25	808.98	16.23	792.75	18.33	790.65
Piezometer					
PZ-01	856.72	38.71	818.01	38.32	818.40
PZ-04	889.01	10.82	878.19	17.52	871.49
PZ-06	915.15	19.63	895.52	23.23	891.92
PZ-08	867.29	31.18	836.11	29.46	837.83
PZ-10	832.02	23.51	808.51	28.90	803.12
PZ-11	823.09	20.95	802.14	23.99	799.10
PZ-12	818.74	29.54	789.20	30.81	787.93
PZ-15	826.86	30.80	796.06	29.13	797.73
PZ-16	800.70	10.93	789.77	13.71	786.99
PZ-17	831.01	37.63	793.38	38.13	792.88
PZ-18	814.51	15.31	799.20	19.30	795.21
PZ-20	787.30	14.89	772.41	18.16	769.14
PZ-23D	834.32	48.75	785.57	47.35	786.97
PZ-27D	809.28	18.89	790.39	19.79	789.49
PZ-28	816.18	27.36	788.82	28.78	787.40
PZ-29S	805.30	21.89	783.41	22.35	782.95
PZ-29D	805.24	23.77	781.47	29.78	775.46
WAMW-1	782.66	20.43	762.23	21.12	761.54
WAMW-2	770.82	12.99	757.83	14.37	756.45
WGWC-14	809.50	18.67	790.83	23.58	785.92
WGWC-26D	808.23	28.77	779.46	33.93	774.30
Assessment Monitoring Well					
PZ-26D	804.93	12.88	792.05	17.85	787.08
WGWC-27	780.54	6.75	773.79	11.17	769.37
WGWC-28D	808.24	N/A	N/A	N/A	N/A

Notes:

ft = feet

ft BTOC = feet below top of casing

N/A = Not applicable

(1) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). 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. Survey of WGWC-26D and WGWC-27 was completed by GEL Solutions and certified October 13, 2022. Survey of WGWC-28D was completed by GEL Solutions and certified September 5, 2023.

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

Flow Path Direction ⁽¹⁾	February 13, 2023				August 7, 2023			
	h ₁ (ft)	h ₂ (ft)	L (ft)	i (ft/ft)	h ₁ (ft)	h ₂ (ft)	L (ft)	i (ft/ft)
PZ-01 to WGWC-17	818.01	787.92	373	0.081	818.40	786.84	373	0.085
PZ-10 to WGWC-19	808.51	763.72	446	0.100	803.12	762.66	446	0.091

Flow Path Direction ⁽¹⁾	K _h (ft/day)	n _e	Average for 2023		
			i (ft/ft)	V (ft/day) ⁽²⁾	V (ft/day) ⁽³⁾
PZ-01 to WGWC-17	0.27	0.25	0.083	0.089	0.096
PZ-10 to WGWC-19			0.096	0.103	

Notes:

ft = feet

ft/day = feet per day

ft/ft = feet per foot

h₁, h₂ = groundwater elevation at location 1 and location 2

L = distance between location 1 and 2

$i = h_1 - h_2 / L$ = horizontal hydraulic gradient

K_h = horizontal hydraulic conductivity

n_e = effective porosity

V = groundwater flow velocity

(1) Flow path direction relative to the orientation of AP-1 and illustrated on Figure 3 of associated report.

(2) Groundwater flow velocity equation: $V = [K_h * i] / n_e$

(3) 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	WGWA-7	WGWA-7
	Sample Date:	2/14/2023	8/14/2023	2/14/2023	8/14/2023	2/14/2023	8/15/2023	2/15/2023	8/15/2023	2/14/2023	8/15/2023	2/14/2023	8/15/2023	2/14/2023	8/15/2023
	Constituent ^(1,2)														
Appendix III	Boron	0.026 J	<0.022	0.023 J	<0.022	<0.022	<0.022	<0.022	<0.022	0.030 J	<0.022	<0.022	<0.022	0.033 J	<0.022
	Calcium	1.4	1.5	12	14	2.0	1.9	18	17	1.3	26	29	27	1.3	1.8
	Chloride	3.9	3.8	2.6	2.5	1.6	1.6	1.2	1.2	1.3	1.2	1.5	1.4	1.8	1.7
	Fluoride	<0.040	<0.040	0.070 J	0.061 J	0.041 J	0.040 J	0.14	0.14	<0.040	<0.040	0.11	0.12	<0.040	<0.040
	pH ⁽³⁾	5.37	5.09	6.06	6.06	5.49	5.34	7.21	6.47	5.30	6.60	7.78	7.93	5.44	5.49
	Sulfate	<0.40	<0.40	0.66 J	0.74 J	0.65 J	0.71 J	7.8	7.4	0.66 J	1.2	7.9	7.3	<0.40	0.45 J
	TDS	34	37	100	110	27	34	100	110	24	82	120	130	24	29
Appendix IV	Antimony	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034
	Arsenic	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086
	Barium	0.050	0.050	0.022	0.025	0.015	0.014	0.0058 J	0.0055 J	0.018	0.016	0.0078 J	0.0072 J	0.011	0.013
	Beryllium	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Cadmium	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Chromium	<0.0012	0.0012 J	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	Cobalt	0.00073 J	0.00087 J	0.00052 J	0.00060 J	<0.00022	<0.00022	<0.00022	<0.00022	0.0011 J	0.00059 J	<0.00022	<0.00022	<0.00022	<0.00022
	Fluoride	<0.040	<0.040	0.070 J	0.061 J	0.041 J	0.040 J	0.14	0.14	<0.040	<0.040	0.11	0.12	<0.040	<0.040
	Lead	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021
	Lithium	0.0029 J	<0.0020	0.0060	0.0026 J	<0.0020	<0.0020	0.0041 J	<0.0020	<0.0020	<0.0020	0.0045 J	<0.0020	<0.0020	<0.0020
	Mercury	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080
	Molybdenum	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086
	Comb. Radium 226/228	0.827	1.04	0.421 U	0.585 U	0.605	0.569 U	1.59	1.40	0.741	0.391 U	8.54	11.4	-0.022 U	-0.139 U
Selenium	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	
Thallium	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	
Major Ions	Bicarbonate Alkalinity	390	--	240	--	270	--	110	--	97.0	--	150	--	160	--
	Total Alkalinity	390	--	240	--	270	--	110	--	97.0	--	150	--	160	--
	Iron	<0.012	--	<0.012	--	<0.012	--	1.0	--	0.055	--	0.28	--	<0.012	--
	Magnesium	1.3	--	4.4	--	1.2	--	2.8	--	0.78	--	2.4	--	0.69	--
	Manganese	0.010	--	0.033	--	<0.0022	--	0.18	--	0.0066	--	0.15	--	0.0024 J	--
	Potassium	1.3	--	2.5	--	1.4	--	2.9	--	1.3	--	3.4	--	0.89	--
	Sodium	3.6	--	9.8	--	3.0	--	7.9	--	1.6	--	6.1	--	2.7	--
Sulfide	<0.83	--	<0.81	--	<0.81	--	<0.81	--	<0.81	--	<0.81	--	<0.81	--	

Notes:

-- = Parameter was not analyzed.

TDS = total dissolved solids

< = Indicates the parameter was not detected above the analytical method detection limit (MDL)

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

U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)

(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 and Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM 2540C, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field.

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

	Well ID:	WGWA-18	WGWA-18	WGWC-8	WGWC-8	WGWC-9	WGWC-9	WGWC-10	WGWC-10	WGWC-11	WGWC-11	WGWC-12	WGWC-12	WGWC-13	WGWC-13
	Sample Date:	2/14/2023	8/15/2023	2/16/2023	8/15/2023	2/15/2023	8/16/2023	2/16/2023	8/17/2023	2/16/2023	8/16/2023	2/16/2023	8/16/2023	2/16/2023	8/16/2023
	Constituent ^(1,2)														
Appendix III	Boron	<0.022	<0.022	2.8	2.8	0.69	0.60	0.040 J	0.031 J	<0.022	<0.022	0.024 J	<0.022	0.033 J	<0.022
	Calcium	5.7	8.3	92	96	11	11	6.9	8.0	1.7	1.7	12	15	3.8	4.1
	Chloride	1.9	1.8	120	110	3.9	3.3	1.3	1.3	3.3	3.3	2.9	2.8	0.97 J	0.91 J
	Fluoride	0.053 J	0.051 J	0.14	0.15 J	0.85	0.90	0.11	0.10	0.041 J	0.041 J	0.089 J	0.083 J	0.15	0.13
	pH ⁽³⁾	5.89	6.01	5.22	5.43	5.86	5.78	6.39	6.49	5.69	5.17	6.61	6.10	6.27	6.22
	Sulfate	7.3	6.8	250	240	65	50	1.8	1.7	1.0	1.0	2.8	12	2.3	2.1
	TDS	42	56	590	680	160	110	54	56	33	33	89	92	81	84
Appendix IV	Antimony	<0.00034	<0.00034	0.00064 J	0.0079	0.00048 J	0.0011 J	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034
	Arsenic	<0.00086	<0.00086	<0.00086	0.00087 J	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086
	Barium	0.013	0.016	0.00093 J	0.0019 J	<0.00089	<0.00089	0.032	0.036	0.041	0.044	0.014	0.017	0.037	0.042
	Beryllium	<0.00020	<0.00020	0.0025	0.0024 J	0.00044 J	0.00040 J	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Cadmium	<0.000078	<0.000078	0.00065 J	0.00013 J	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Chromium	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.0014 J	0.0029	<0.0012	<0.0012	<0.0012	<0.0012	0.0045	<0.0012
	Cobalt	0.001 J	0.00075 J	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	0.00038 J	<0.00022	<0.00022	0.0004 J	0.00025 J	<0.00022	0.00024 J
	Fluoride	0.053 J	0.051 J	0.14	0.15 J	0.85	0.90	0.11	0.10	0.041 J	0.041 J	0.089 J	0.083 J	0.15	0.13
	Lead	<0.00021	<0.00021	0.00029 J	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	0.00027 J	0.00025 J
	Lithium	<0.0020	<0.0020	0.010	0.0084	0.033	0.030	0.0025 J	0.0024 J	<0.0020	<0.0020	0.0036 J	0.0056	<0.0020	<0.0020
	Mercury	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080
	Molybdenum	<0.00086	<0.00086	<0.00086	<0.00086	0.0025 J	0.0031 J	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	0.0013 J	0.0012 J
	Comb. Radium 226/228	0.753	0.426 U	3.04	2.65	0.011 U	0.209 U	0.326 U	-0.112 U	0.417 U	0.297 U	0.388 U	0.450 U	0.200 U	-0.0900 U
Selenium	<0.00099	<0.00099	0.0033 J	0.0037 J	0.0037 J	0.0036 J	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	
Thallium	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	
Major Ions	Bicarbonate Alkalinity	83.0	--	9.7	--	140	--	33.0	--	11.0	--	43.0	--	33.0	--
	Total Alkalinity	83.0	--	9.7	--	140	--	33.0	--	11.0	--	43.0	--	33.0	--
	Iron	0.11	--	<0.048	--	<0.012	--	<0.012	--	0.022 J	--	1.5	--	0.095	--
	Magnesium	1.3	--	24.0	--	3.1	--	1.6	--	1.3	--	2.6	--	0.48 J	--
	Manganese	0.11	--	0.0083	--	0.0052	--	0.0056	--	0.016	--	0.013	--	<0.0022	--
	Potassium	2.5	--	9.5	--	1.5	--	1.7	--	1.2	--	2.0	--	1.7	--
	Sodium	4.4	--	38.0	--	25.0	--	3.6	--	3.4	--	5.8	--	9.3	--
Sulfide	1.2	--	<0.83	--	<0.83	--	<0.81	--	<0.83	--	<0.83	--	<0.81	--	

Notes:

-- = Parameter was not analyzed.

TDS = total dissolved solids

< = Indicates the parameter was not detected above the analytical method detection limit (MDL)

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

U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)

(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 and Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM 2540C, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field.

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

	Well ID:	WGWC-14A	WGWC-14A	WGWC-15	WGWC-15	WGWC-16	WGWC-16	WGWC-17	WGWC-17	WGWC-19	WGWC-19	WGWC-20	WGWC-20	WGWC-21	WGWC-21	
	Sample Date:	2/16/2023	8/16/2023	2/15/2023	8/16/2023	2/15/2023	8/15/2023	2/16/2023	8/16/2023	2/16/2023	8/16/2023	2/16/2023	8/11/2023	2/16/2023	8/17/2023	
	Constituent ^(1,2)															
Appendix III	Boron	0.030 J	<0.022	<0.022	<0.022	0.86	0.81	<0.022	<0.022	<0.022	<0.022	3.5	3.1	0.14	0.12	
	Calcium	0.70	0.70	31	32	26	23	6.0	6.3	13	14	190	150	68	63	
	Chloride	1.9	1.8	1.0	0.95 J	42	34	1.2	1.1	2.6	2.5	230	190	51	47	
	Fluoride	<0.040	0.040 J	0.73	0.73	0.076 J	0.065 J	0.069 J	0.064 J	0.33	0.34	1.9	2.1	1.9	1.8	
	pH ⁽³⁾	5.40	5.17	7.72	7.41	5.19	5.07	6.23	6.13	6.80	6.44	5.17	5.31	6.92	6.91	
	Sulfate	0.47 J	0.52 J	14	13	54	52	2.6	2.6	3.0	2.6	350	330	340	310	
	TDS	27	29	130	150	160	160	77	81	100	100	960	910	630	690	
Appendix IV	Antimony	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	0.00069 J	<0.00034	<0.00034	
	Arsenic	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	
	Barium	0.028	0.026	0.029	0.030	0.044	0.039	0.010	0.012	0.00096 J	0.0014 J	<0.00089	<0.00089	0.0053 J	0.0044 J	
	Beryllium	0.00031 J	0.00023 J	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.011	0.0099	<0.00020	0.00021 J
	Cadmium	<0.000078	<0.000078	<0.000078	<0.000078	0.000085 J	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	0.00057 J	0.00019 J	<0.000078	<0.000078
	Chromium	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.0015 J	<0.0012
	Cobalt	0.0022 J	0.0020 J	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	0.00053 J	0.00026 J	<0.00022	<0.00022	<0.00022	<0.00022
	Fluoride	<0.040	0.040 J	0.73	0.73	0.076 J	0.065 J	0.069 J	0.064 J	0.33	0.34	1.9	2.1	1.9	1.8	
	Lead	0.00024 J	0.00022 J	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021
	Lithium	<0.0020	<0.0020	0.0062	0.0055	0.0044 J	<0.0020	0.0026 J	0.0031 J	0.053	0.062	0.14	0.13	0.053	0.061	
	Mercury	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080
	Molybdenum	<0.00086	<0.00086	0.0027 J	0.0030 J	<0.00086	<0.00086	0.0022 J	0.0023 J	0.0014 J	0.0013 J	<0.00086	<0.00086	0.034	0.029	
	Comb. Radium 226/228	0.455 U	0.277 U	0.088 U	0.0271 U	0.734	0.732	0.121 U	0.533 U	0.248 U	0.369 U	0.853	0.591 U	0.617	2.44	
Selenium	<0.00099	<0.00099	<0.00099	<0.00099	0.0019 J	0.0018 J	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	0.0017 J	0.0016 J	<0.00099	<0.00099	
Thallium	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	
Major Ions	Bicarbonate Alkalinity	12.0	--	130	--	260	--	46.0	--	88.0	--	9.5	--	110	--	
	Total Alkalinity	12.0	--	130	--	260	--	46.0	--	88.0	--	9.5	--	110	--	
	Iron	0.044 J	--	0.012 J	--	<0.012	--	0.15	--	0.14	--	<0.012	--	0.079	--	
	Magnesium	0.71	--	5.0	--	8.4	--	3.5	--	9.0	--	44.0	--	9.0	--	
	Manganese	0.055	--	0.0074	--	0.017	--	0.0072	--	0.019	--	0.36	--	0.04	--	
	Potassium	1.7	--	1.5	--	2.8	--	1.7	--	1.3	--	6.6	--	3.1	--	
	Sodium	4.0	--	10.0	--	12.0	--	9.2	--	7.6	--	54.0	--	160	--	
Sulfide	<0.81	--	<0.83	--	<0.83	--	<0.81	--	<0.83	--	<0.86	--	1.1	--		

Notes:

-- = Parameter was not analyzed.

TDS = total dissolved solids

< = Indicates the parameter was not detected above the analytical method detection limit (MDL)

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

U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)

(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 and Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM 2540C, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field.

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

	Well ID:	WGWC-22	WGWC-22	WGWC-23	WGWC-23	WGWC-24	WGWC-24	WGWC-25	WGWC-25	WGWC-26D	WGWC-26D	WGWC-27	WGWC-27	WGWC-28D	WGWC-28D	PZ-26D	
	Sample Date:	2/15/2023	8/17/2023	2/15/2023	8/17/2023	2/15/2023	8/17/2023	2/15/2023	8/15/2023	2/16/2023	8/11/2023	2/16/2023	8/11/2023	9/26/2023	11/7/2023	8/17/2023	
	Constituent ^(1,2)																
Appendix III	Boron	0.39	0.33	0.049 J	<0.022	1.4	0.59	0.89	0.57	3.9	3.3	0.22	0.35	4.4	4.4	0.08	
	Calcium	26	16	2.4	4.2	39	18	18	28	180	140	19	25	270	310	16	
	Chloride	4.6	3.9	2.9	2.9	39	22	79	35	280	200	22	29	540	600	14	
	Fluoride	0.31	0.32	0.048 J	0.045 J	0.63	0.28	<0.040	0.049 J	1.7	2.2	0.92	1.1	1.6	6.48	0.22	
	pH ⁽³⁾	5.47	5.41	5.49	5.66	4.54	4.37	5.36	5.97	5.52	5.68	5.91	6.07	--	2.1	6.11	
	Sulfate	110	71	5.2	4.9	120	50	27	19	370	350	29	31	380	480	31	
	TDS	210	180	71	73	230	150	200	180	1100	950	160	180	1400	1,600	150	
Appendix IV	Antimony	0.0012 J	<0.00034	0.0022	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	0.0009 J	0.00047 J	0.0015 J	0.00057 J	-	0.00038 J	
	Arsenic	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	0.0013	-	<0.00086	
	Barium	0.033	0.021	0.0055 J	0.010	0.036	0.046	0.33	0.19	0.0045 J	0.0040 J	0.0049 J	0.0047 J	0.016	-	0.024	
	Beryllium	0.00067 J	0.00060 J	0.0012 J	0.0013 J	0.0099	0.0049	0.00026 J	<0.00020	0.0079	0.0071	0.00046 J	0.00052 J	0.00073 J	-	<0.0002	
	Cadmium	0.00028 J	<0.000078	<0.000078	<0.000078	0.00057 J	0.00095 J	0.0001 J	<0.000078	0.00018 J	0.00011 J	0.00008 J	<0.000078	<0.000078	-	<0.000078	
	Chromium	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.002	-	<0.0012
	Cobalt	<0.00022	<0.00022	<0.00022	<0.00022	0.084	0.035	0.0049	0.0081	0.0014 J	0.0011 J	0.0013 J	0.0018 J	0.00072 J	-	0.017	
	Fluoride	0.31	0.32	0.048 J	0.045 J	0.63	0.28	<0.040	0.049 J	1.7	2.2	0.92	1.1	1.6	2.1	0.22	
	Lead	0.00023 J	<0.00021	0.0046	<0.00021	0.00056 J	0.00029 J	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	-	<0.00021	
	Lithium	0.0090	0.0069	<0.0020	<0.0020	0.0068	0.0022 J	0.0031 J	<0.0020	0.17	0.15	0.024	0.036	0.18	0.21	0.028	
	Mercury	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	-	<0.00008	
	Molybdenum	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	0.006 J	0.0037 J	<0.00086	<0.00086	0.018	-	0.0025 J	
	Comb. Radium 226/228	5.98	4.47	0.985	1.91	0.974	1.62	0.873	0.581 U	5.49	4.83	2.16	3.88	15.40	-	1.44	
Selenium	0.0077	0.0038 J	0.0026 J	0.0024 J	<0.00099	<0.00099	<0.00099	<0.00099	0.0012 J	0.0016 J	<0.00099	<0.00099	<0.00099	-	<0.00099		
Thallium	<0.00026	<0.00026	<0.00026	<0.00026	0.00045 J	0.00028 J	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	-	<0.00026		
Major Ions	Bicarbonate Alkalinity	340	--	82.0	--	9.0	--	8.0	--	21.0	--	35.0	--	--	76	--	
	Total Alkalinity	340	--	82.0	--	9.0	--	8.0	--	21.0	--	35.0	--	--	76	--	
	Iron	0.13	--	<0.012	--	<0.012	--	0.11	--	1.6	--	0.42	--	--	2.1	--	
	Magnesium	6.4	--	0.45 J	--	7.7	--	22.0	--	57.0	--	3.2	--	--	54	--	
	Manganese	0.018	--	0.0038 J	--	2.8	--	0.27	--	0.73	--	0.43	--	--	2	--	
	Potassium	6.3	--	2.2	--	8.8	--	3.8	--	4.6	--	2.0	--	--	61	--	
	Sodium	24.0	--	13.0	--	9.9	--	12.0	--	53.0	--	15.0	--	--	170	--	
Sulfide	<0.81	--	<0.83	--	<0.83	--	<0.83	--	<0.83	--	<0.83	--	--	3.3	--		

Notes:

-- = Parameter was not analyzed.

TDS = total dissolved solids

< = Indicates the parameter was not detected above the analytical method detection limit (MDL)

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

U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)

(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 and Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM 2540C, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field.

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

Constituent	Units	MCL	CCR-Rule Specified ⁽¹⁾	Background Limit ⁽²⁾	GWPS ⁽³⁾
Antimony	mg/L	0.0060	N/A	0.0022	0.0060
Arsenic	mg/L	0.010	N/A	0.0014	0.010
Barium	mg/L	2.0	N/A	0.062	2.0
Beryllium	mg/L	0.0040	N/A	0.0025	0.0040
Cadmium	mg/L	0.0050	N/A	0.0025	0.0050
Chromium	mg/L	0.10	N/A	0.0063	0.10
Cobalt	mg/L	N/A	0.01	0.013	0.013
Fluoride	mg/L	4.0	N/A	0.284	4.0
Lead	mg/L	N/A	0.02	0.0013	0.015
Lithium	mg/L	N/A	0.04	0.0090	0.040
Mercury	mg/L	0.0020	N/A	0.00020	0.0020
Molybdenum	mg/L	N/A	0.10	0.015	0.10
Selenium	mg/L	0.050	N/A	0.0050	0.050
Thallium	mg/L	0.0020	N/A	0.0010	0.0020
Combined Radium-226/228	pCi/L	5.0	N/A	11.4	11.4

Notes:

mg/L = milligrams per liter

pCi/L = picocuries per liter

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

GWPS = Groundwater Protection Standard

N/A = Not Applicable

(1) On February 22, 2022, the Georgia Environmental Protection Division (GA EPD) adopted the federally promulgated GWPS for cobalt, lithium, lead, and molybdenum.

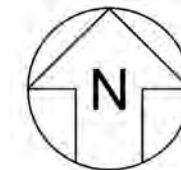
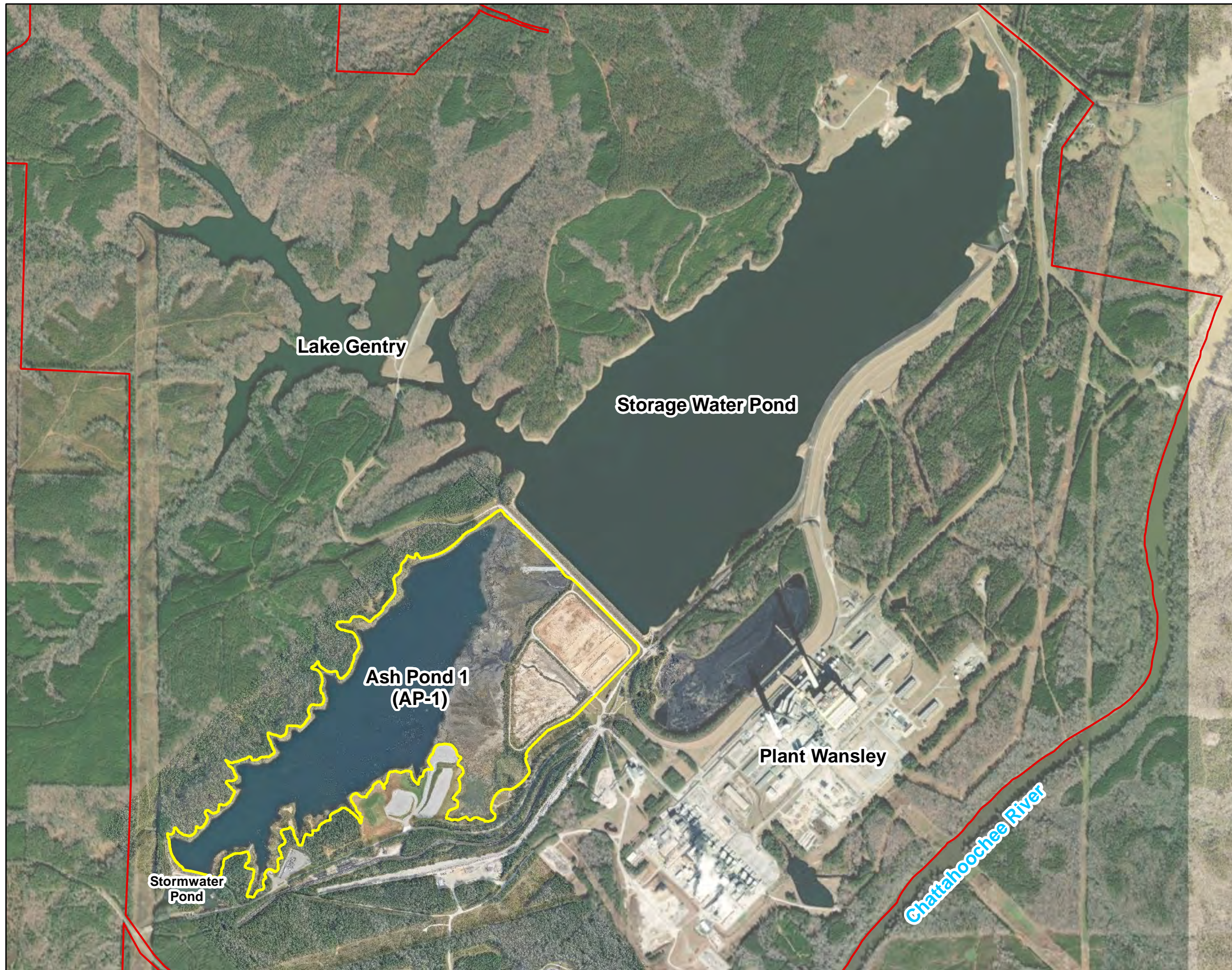
(2) The background limits were used when determining the GWPS under 40 CFR 257.95(h) and GA EPD Rule 391-3-4-.10(6)(a).

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

(4) Where two numbers are present, they

denote the different background levels for each of the two 2018 semiannual monitoring events in the order that they were determined.

FIGURES



Legend

- Approximate Property Boundary
- Approximate AP-1 Boundary



Notes:
 1. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, June 24, 2023.
 2. Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, April 13, 2023.



SITE LOCATION MAP

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

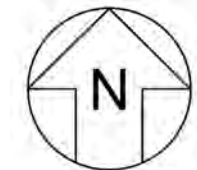
Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA

JANUARY 2024

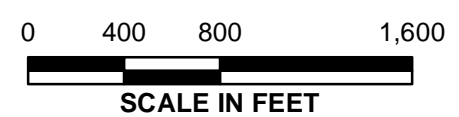
FIGURE 1



- Legend**
- + Detection Monitoring Well
 - + Horizontal Assessment Monitoring Well
 - + Vertical Assessment Monitoring Well
 - + Piezometer
 - Approximate AP-1 Boundary



- Notes:**
1. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, June 24, 2023.
 2. Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, April 13, 2023.
 3. Assessment monitoring wells installed October 2020 (PZ-26D), September 2022 (WGWC-27), and August 2023 (WGWC-28D).



**GROUNDWATER MONITORING
WELL NETWORK MAP**

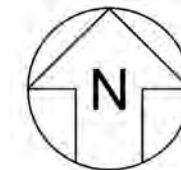
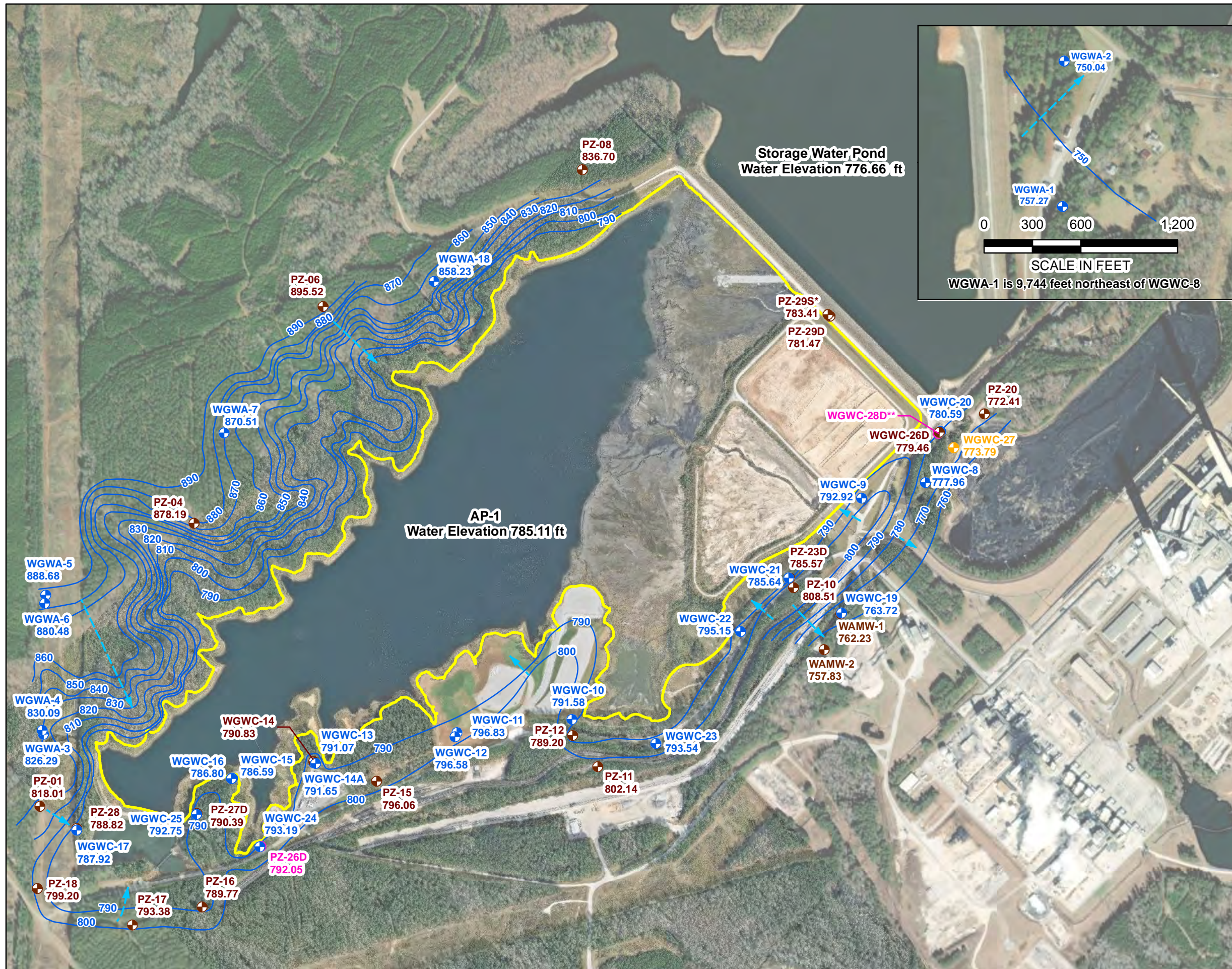
GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

**FIGURE
2**

KENNESAW, GA JANUARY 2024



- Legend**
- + Detection Monitoring Well
 - + Horizontal Assessment Monitoring Well
 - + Vertical Assessment Monitoring Well
 - + Piezometer
 - Groundwater Elevation Iso-Contour
 - Approximate Groundwater Flow Direction
 - Approximate AP-1 Boundary



Notes:

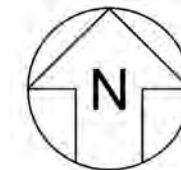
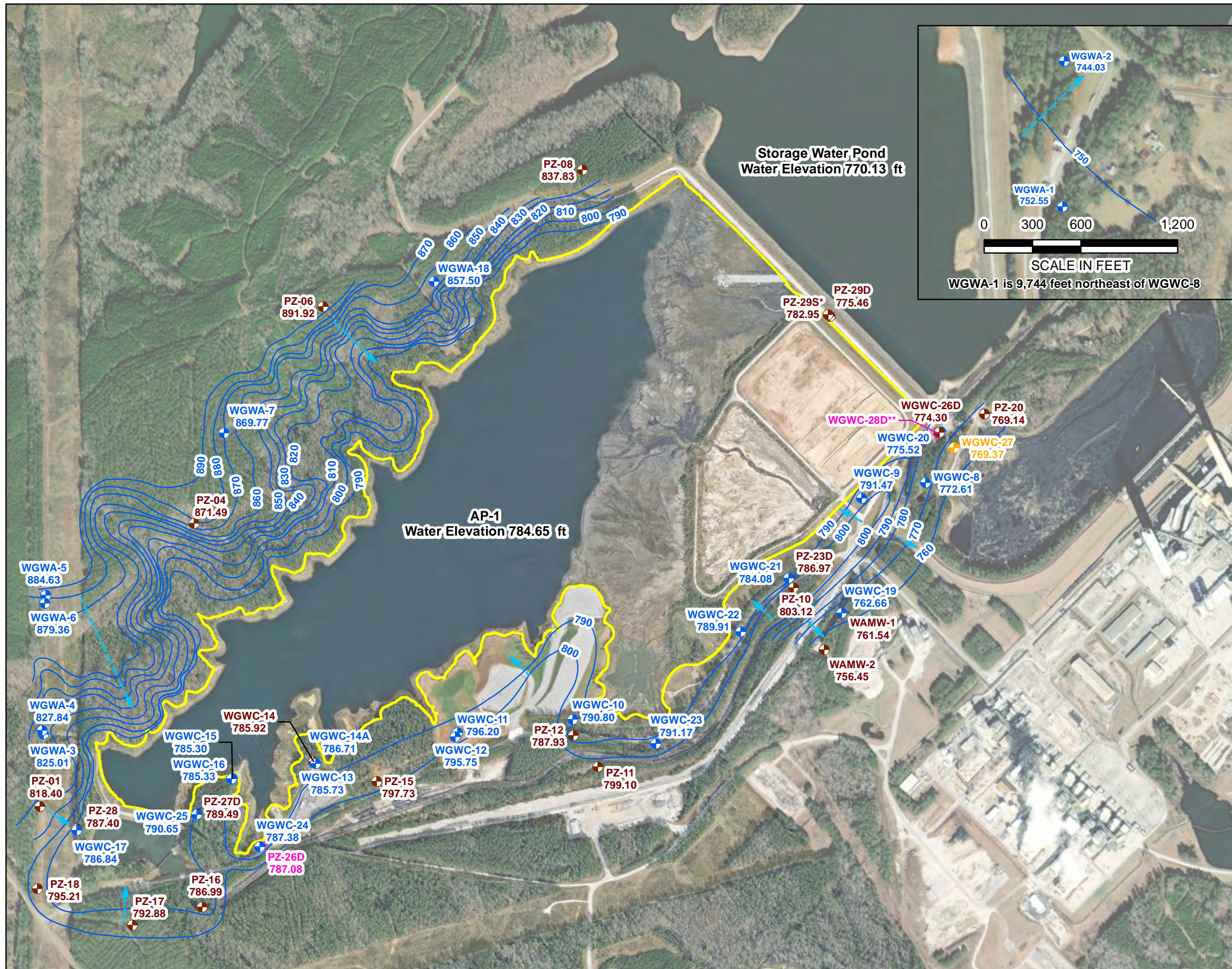
1. Water level elevation recorded on February 13, 2023. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88. The map shows only the wells/piezometers currently installed at the time of the gauging event.
2. * indicates piezometer PZ-29S is installed within the dike materials and may not be representative of actual groundwater conditions.
3. ** indicates WGWC-28D was installed by Cascade Drilling, Inc. August 2023 and surveyed September 5, 2023. No water elevation recorded during the February 2023 event.
4. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, June 24, 2023.
5. Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, April 13, 2023.



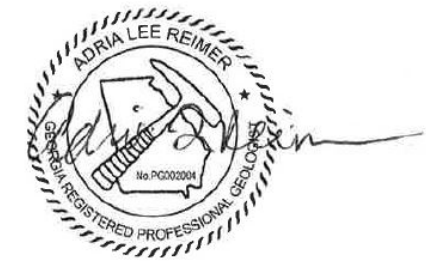
**POTENTIOMETRIC SURFACE CONTOUR
MAP - FEBRUARY 2023**

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

Prepared For:	Georgia Power	FIGURE 3
Prepared By:	Geosyntec consultants	
KENNESAW, GA	JANUARY 2024	



- Legend**
- + Detection Monitoring Well
 - + Horizontal Assessment Monitoring Well
 - + Vertical Assessment Monitoring Well
 - + Piezometer
 - Groundwater Elevation Iso-Contour
 - Approximate Groundwater Flow Direction
 - Approximate AP-1 Boundary



Notes:

1. Water level elevation recorded on August 7-8, 2023. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88. The map shows only the wells/piezometers currently installed at the time of the gauging event.
2. * indicates piezometer PZ-29S is installed within the dike materials and may not be representative of actual groundwater conditions.
3. ** indicates WGWC-28D was installed by Cascade Drilling, Inc. August 2023 and surveyed September 5, 2023. No water elevation recorded during the August 2023 event.
4. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, June 24, 2023.
5. Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, April 13, 2023.



**POTENTIOMETRIC SURFACE CONTOUR
MAP - AUGUST 2023**

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

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

FIGURE
4

KENNESAW, GA JANUARY 2024

APPENDIX A

Well Design, Installation, and Development Report, Plant Wansley Ash Pond 1 (AP-1)



Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

**WELL DESIGN, INSTALLATION, AND
DEVELOPMENT REPORT
PLANT WANSLEY ASH POND 1 (AP-1)**

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW7327B

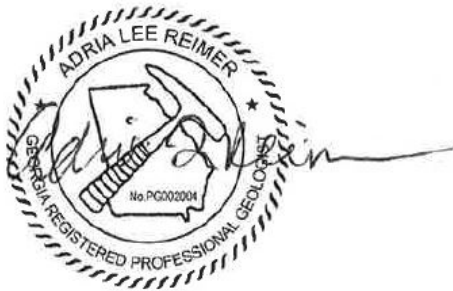
October 2023



CERTIFICATION PAGE

I hereby certify that this *Well Design, Installation, and Development Report – Plant Wansley AP-1* has been prepared by, or under the direct supervision of, a Qualified Groundwater Scientist with Geosyntec Consultants and is in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule [40 Code of Federal Regulations 257 Subpart D], specifically §257.91(e)(1), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.

According to 391-3-4-.01, a Qualified Groundwater Scientist is “a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.”



Date: October 17, 2023
Adria Reimer, P.G.
Georgia Professional Geologist No. 2004
Senior Geologist
Geosyntec Consultants

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2.	DRILLING AND WELL INSTALLATION.....	2
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Appendix A	Well Driller Performance Bond
Appendix B	Boring and Well Construction Log
Appendix C	Well Development and Equipment Calibration Forms
Appendix D	Certified Well Survey Data

LIST OF ACRONYMS

AP	Ash Pond
ACC	Atlantic Coast Consulting
ASTM	American Society for Testing and Materials
CCR	coal combustion residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
NAD	North America Datum
NAVD	North American Vertical Datum
NSF	National Sanitation Foundation
ORP	oxygen reduction potential
PVC	polyvinyl chloride
TOC	top of casing
US EPA	United States Environmental Protection Agency

1. INTRODUCTION

This report provides details regarding the design, installation, and development of one (1) assessment monitoring well (WGWC-28D) to supplement the current groundwater monitoring system at Georgia Power Company (Georgia Power) Plant Wansley (Site) Ash Pond 1 (AP-1).

The well installation was completed to meet the requirements promulgated in the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257, Subpart D], specifically 40 CFR §257.91(e)(1) and Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10.

Plant Wansley is located in Heard and Carroll counties near Carrollton, Georgia. The current groundwater monitoring system at AP-1 includes a network of detection monitoring wells, assessment monitoring wells, and piezometers. The location of the new assessment monitoring well, as well as existing wells and piezometers, are shown on **Figure 1**.

2. DRILLING AND WELL INSTALLATION

Well installation and development activities were performed according to accepted industry standards and following guidelines within the *Manual for Groundwater Monitoring* (GA EPD, 1991). Well drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc. of Aiken, South Carolina. In accordance with the Georgia Water Well Standards Act, the driller was required to have an insurance bond on file with the State of Georgia at the time of drilling. A copy of this bond is provided in **Appendix A**. A professional geologist employed with Geosyntec Consultants (Geosyntec) and registered to practice in the State of Georgia documented the drilling and installation efforts to record observations, soil and rock descriptions, subsurface stratigraphy, groundwater elevations, and other field activities.

WGWC-28D was installed and completed in August 2023. The location of the well is shown on **Figure 1**. Well construction details are provided in **Table 1** and the boring and well construction log is included in **Appendix B**.

2.1 Drilling Method

The borehole was advanced using rotasonic drilling techniques with continuous core collection. A track mounted Terra Sonic 150 drill rig was used to install the well, using a nominal 6-inch and 7-inch diameter outer drill casing and a 4-inch diameter core barrel. Care was taken so that the drilling methods did not introduce contamination of the groundwater from surface activities.

2.2 Screened Interval

Details regarding the well screened interval are provided in **Table 1**. The well is screened from approximately 609 to 599 feet elevation [referenced to the North American Vertical Datum of 1988 (NAVD 88)]. The well is constructed with a 10-foot well screen segment.

2.3 Well Casings and Screens

The well is constructed of 2-inch inner diameter Schedule 40 polyvinyl chloride (PVC) casing with flush-threaded fittings. The well was installed with a 10-foot nominal length U-Pack[®] dual-wall well screen with 0.010-inch slots. The casing and screen arrived pre-cleaned and packaged by the manufacturer. The U-Pack well screen was constructed onsite by packing sand between slotted PVC and the well screen. Well construction materials are sufficiently durable to resist chemical and physical degradation and do not

interfere with the quality of groundwater samples. Casing and screen are flush-threaded. Solvent or glue was not used to construct the well. A threaded bottom cap was attached to the bottom of the screen. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated. Details regarding well screened intervals are provided in **Table 1**.

2.4 Well Intake Design

The well was designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling; (2) minimize the passage of formation materials (turbidity) into the well; and (3) ensure sufficient structural integrity to prevent collapse of the well. The annular space between the face of the formation and the screen was filled to minimize passage of formation materials into the well. A filter pack of clean, well-rounded, quartz sand was installed in the well. The 0.01-inch slot size was selected to minimize the inflow of formation material without impairing influent groundwater flow.

2.5 Filter Pack

Highly Pure Quartzite manufactured by Southern Products and Silica Co. was used as the filter pack material for the well. The filter pack material meets the ASTM D5092 uniformity coefficient specification of 2.5 or less, with a uniformity coefficient of 1.6.

Filter pack material was placed within the U-Pack well screen and in the annular space between the outside of the screen and the borehole wall to ensure an adequate thickness of filter pack material between the well and the formation. Placement of the filter pack between the borehole wall and PVC was placed via gravity-pouring. Filter pack material placed in the annular space outside of the well screen extended a minimum of two (2) feet above the top of screen. No bridging occurred during filter pack placement.

Upon placement of the filter pack, the well was pumped with a submersible pump to ensure settlement of the filter pack. The top of filter pack depth was measured following pumping to confirm appropriate extension of filter sand above the screen. The depth of top of filter pack was measured and recorded on the well construction log provided in **Appendix B**.

2.6 Annular Seal

A minimum of two feet of bentonite chips (PelPlug time-release-coated 3/8-inch bentonite pellets) were placed immediately above the filter pack by gravity-pouring into

the annular space and hydrated per manufacturer's specifications. A tremie pipe was used to probe the annular space to ensure that no bridging occurred.

The annulus above the bentonite seal was grouted with cement/bentonite grout placed via tremie pipe (initial grouting) and direct pour methods (for topping off) from the top of the bentonite seal. During grouting, care was taken to assure that the bentonite seal was not disturbed by locating the base of the tremie pipe approximately 2 feet above the bentonite seal and injecting grout at low pressure/velocity. A cement apron 4-feet by 4-feet by 4-inches was poured around the well. The pad was mounded slightly outward to direct surface drainage away from the well.

2.7 Cap and Protective Casing

The well riser was fitted with a locking cap and a lockable cover. A one-quarter inch vent hole was drilled into the PVC riser pipe to provide an avenue for the escape of gas. The protective cap guards the casing from damage and the locking cap serves as a security device to prevent well tampering. Bollards were installed around the four corners of the concrete pad to protect the well.

A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. The well was clearly marked with the proper well identification number on the stand-up casing.

3. WELL DEVELOPMENT

The monitoring well was developed by Atlantic Coast Consulting (ACC) using a combination of surging and pumping to (i) restore the natural hydraulic conductivity of the formation, and (ii) to remove fine-grained sediment to ensure low-turbidity groundwater samples. The well was alternately surged and purged until visually clear of particulates. Turbidity, pH, temperature, specific conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) measurements were recorded to ensure that the well was fully developed, and field parameters were stabilized. The well development field form provided by ACC is included in **Appendix C**.

4. SURVEY

Upon completion of the well installation, the horizontal location and vertical elevation was surveyed by GEL Solutions, a Georgia-licensed surveyor and certified on September 5, 2023. The top of the PVC well casing [top of casing (TOC) elevation] and the survey pin installed at the well pad was surveyed to within 0.5-foot horizontal accuracy and to 0.01-foot vertical accuracy. The horizontal location (i.e., northing and easting) was recorded in feet relative to the North America Datum of 1983 (NAD) with the vertical elevation recorded in feet relative to the North American Vertical Datum of 1988. Certified survey data is provided in the well construction table (**Table 1**). A copy of the certified well survey data for the well is provided in **Appendix D**.

5. REFERENCES

Georgia Environmental Protection Division (GA EPD), Georgia Department of Natural Resources, 1991. *Manual for Groundwater Monitoring*. September 1991.

United States Environmental Protection Agency. 2015a. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. 40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule. [EPA-HQ-RCRA-2009-0640; FRL-9919-44-OSWER]. RIN-2050-AE81, April 2015

TABLE

Table 1
 Summary of Well Construction Details
 Plant Wansley AP-1
 Heard and Carroll Counties, Georgia

Well ID	Location	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation ⁽²⁾ (ft NAVD88)	Top of Casing Elevation (ft NAVD88)	Top of Screen Elevation (ft NAVD88)	Bottom of Screen Elevation (ft NAVD88)	Well Depth (ft bgs) ⁽³⁾
WGWC-28D	Downgradient	8/18/2023	1243337.13	2029751.04	805.36	808.24	609.06	599.06	206.70

Notes:

AP = ash pond

ID = identification

ft = feet

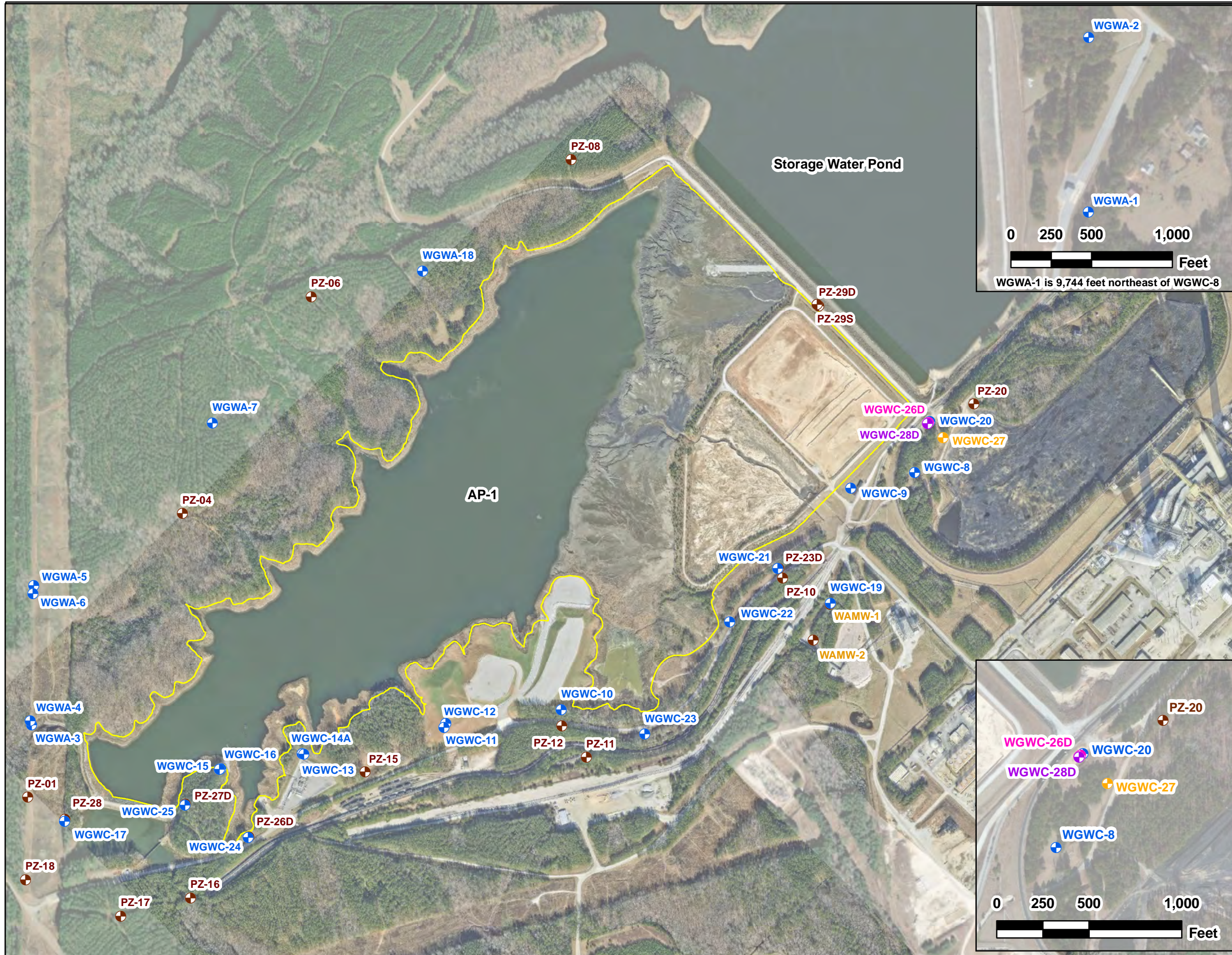
bgs = below ground surface

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey was completed by GEL Solutions and certified September 5, 2023.

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

(3) Total well depth accounts for 4-inch sump.

FIGURE



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- New Vertical Assessment Monitoring Well
- Approximate AP-1 Boundary

Notes:
 1. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, January 2023.
 2. Service Layer Credits for surrounding area: November 2022 Worldview 3 Satellite imagery. Purchased from Harris Geospatial.



AP-1 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 OCTOBER 2023

FIGURE 1

APPENDIX A

Well Driller Performance Bonds

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company

, Surety upon

a certain Bond No. 800033976

dated effective September 27, 2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2023
(MONTH-DAY-YEAR)

and ending on June 30, 2025
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars (\$30,000.00)

Description of bond Performance Bond for Water Well Contractors

Premium:

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on April 13, 2023
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By 
ATTORNEY-IN-FACT Carlos A. Albelo



Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Megan Sivley, Melissa Haddick, Sandra Parker, Orlando Aguirre, Stacy Killebrew, Carlos A. Albelo**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

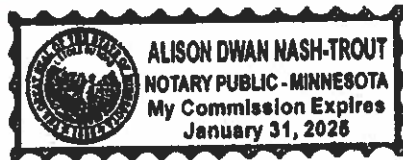
IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this first day of January, 2023.



By *Sarah A. Kolar*
Sarah A. Kolar, General Counsel

STATE OF MINNESOTA
HENNEPIN COUNTY

On this first day of January, 2023, before me personally came Sarah A. Kolar, General Counsel of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and she acknowledged the execution of the same, and being by me duly sworn, that she is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.



Alison Nash-Trout
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 13th day of April, 2023.



This Power of Attorney expires
January 31, 2025

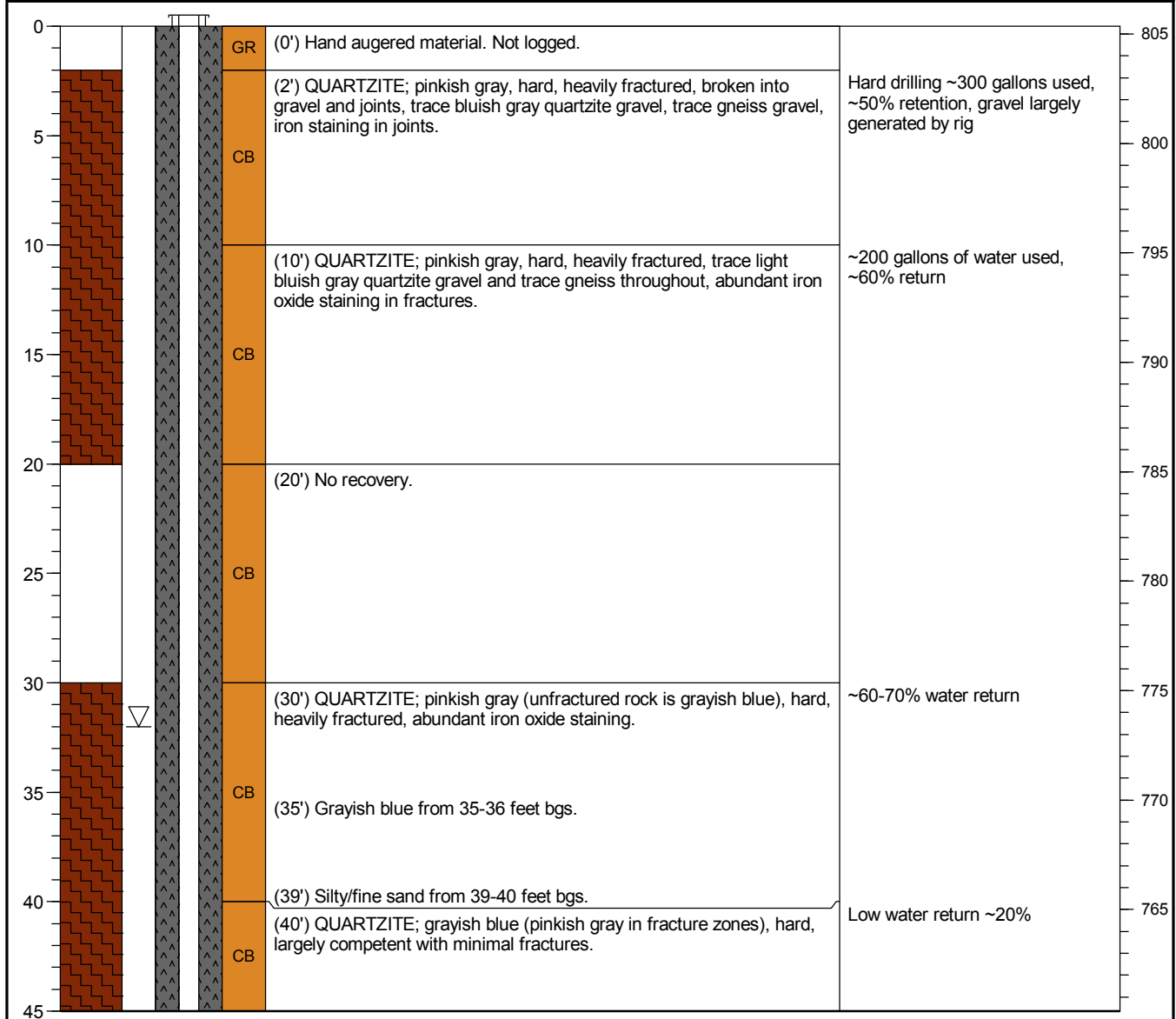
Kara Barrow
Kara Barrow, Secretary

APPENDIX B

Boring and Well Construction Log

Drilling Start Date: 06/26/2023	Boring Depth (ft): 220	Well Depth (ft TOC): 209.6
Drilling End Date: 08/18/2023	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW During Drilling (ft): 32.0	Riser Material: Sch 40 PVC
Drilling Equipment: Terrasonic TSI-150T	Ground Surface Elev. (ft): 805.36 NAV88	Screen Material: Sch 40 PVC U-Pack
Driller: C. Franklin/B. Griffis	Top of Casing Elev. (ft): 808.24 NAV88	Seal Material(s): Grout/Bentonite
Logged By: T. Kessler/T. Payne	Location (N,E): 1243337.13, 2029751.04	Filter Pack: 20/40 Sand

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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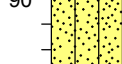
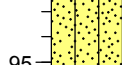



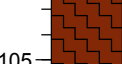


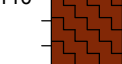
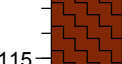
NOTES: Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Boring backfilled with bentonite pellets to 207.8 ft bgs prior to well installation. Well completed with aboveground (+2.88 ft) PVC stickup with metal protective cover and guard posts set in concrete. Well depth measured from top of casing (TOC).

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Logged By: T. Kessler/T. Payne	Location (N,E): 1243337.13, 2029751.04	Filter Pack: 20/40 Sand

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
45				CB	(48') Iron oxide staining evident in fracture zones.		760
50				CB	(50') QUARTZITE; pinkish gray to grayish blue, hard, competent, quartz seams throughout.		755
55				CB			750
60				CB	(60') QUARTZITE; bluish gray green, hard, competent, quartz seams throughout.	Switch bit	745
65				GR	(64') Iron staining. (65') Same as above.		740
70				CB	(67') GNEISS; light bluish gray, hard, fine laminations, micaceous. (69') Large fracture zone with iron oxide staining from 69-70 feet bgs. (70') Competent.	Packer testing conducted from 70-80 ft bgs	735
75				CB			730
80				CB	(80') AMPHIBOLITE GNEISS; gray to dark gray, hard, fine laminations, competent, pink quartz inclusions throughout.	Packer testing conducted from 80-90 ft bgs	725
85				CB			720
90							

NOTES: Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Boring backfilled with bentonite pellets to 207.8 ft bgs prior to well installation. Well completed with aboveground (+2.88 ft) PVC stickup with metal protective cover and guard posts set in concrete. Well depth measured from top of casing (TOC).

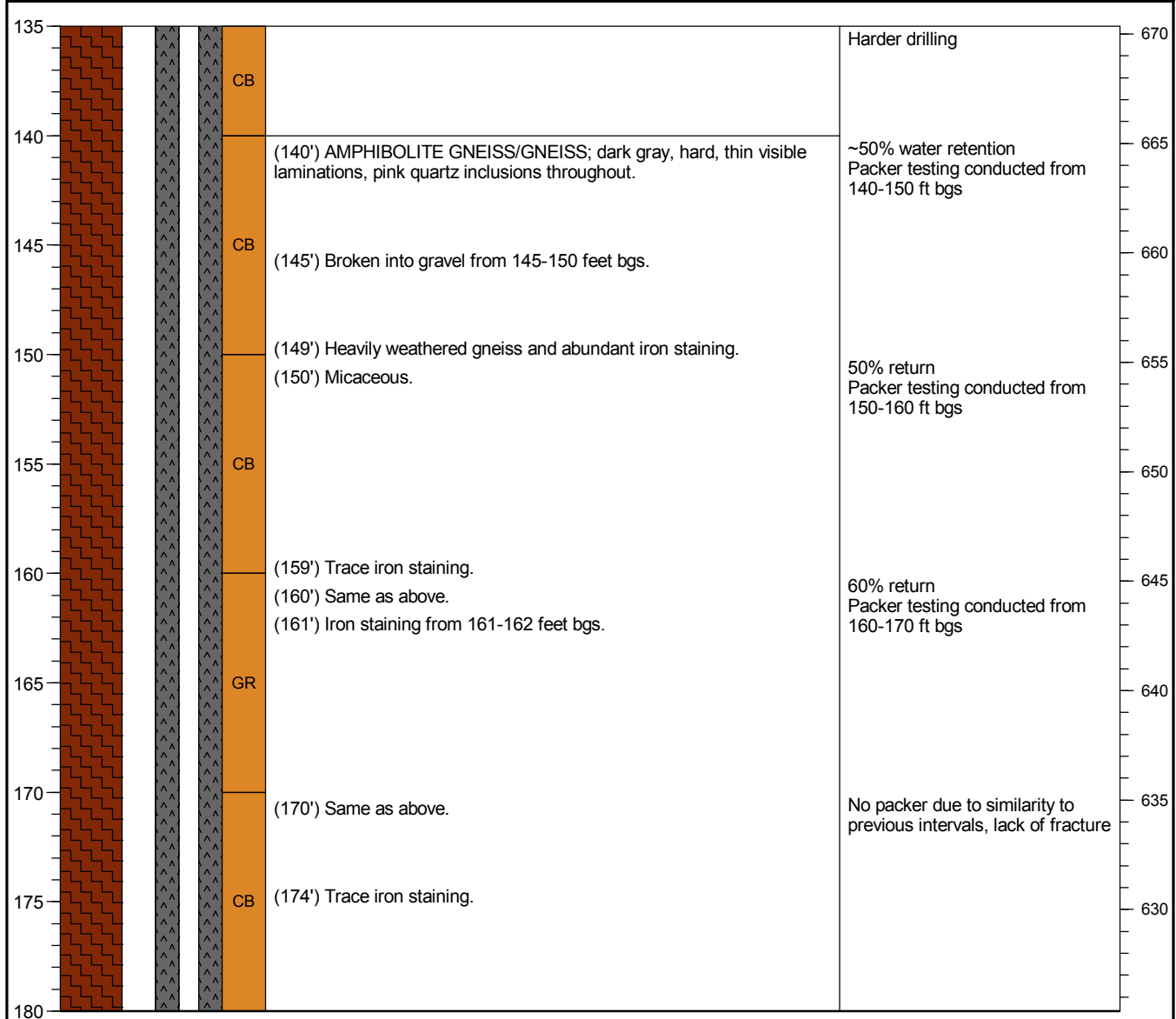
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Drilling Equipment: Terrasonic TSI-150T	Ground Surface Elev. (ft): 805.36 NAV88	Screen Material: Sch 40 PVC U-Pack
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DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
90				CB	(90') SILTY SAND (SM); gray, loose, fine-grained with abundant angular gravel (amphibolite gneiss), moist.	Fine sand likely crushed from drill rig Packer testing conducted from 90-100 ft bgs	715
95				CB	(96') PARTIALLY WEATHERED ROCK; dark brown, loose, thin fine sand lenses (~1 cm thick) separating PWR layers, contain horizontal stained banding, relict rock structure, abundant medium to coarse grained sand (subangular), wet to moist becoming dry at 98 feet bgs, abundant iron staining.	Packer testing conducted from 100-110 ft bgs	710
100			CB	(98') AMPHIBOLITE GNEISS; dark gray, hard, large grains and abundant pink quartz inclusions. (100') Same as above.	705		
105			CB	(105') Rock is broken into angular gravel.	700		
110				GR	(110') With pink quartzite (similar to 2-10 ft bgs), rock is broken into angular gravel throughout. (112') Fractures with abundant iron staining.	Pump dry from 110-120 feet bgs; unable to seal packer Overdrilling very difficult; stall rod location/lock rods multiple times, suspect bit damage Pull 6 inches out to replace bit	695
115			GR	(117') Fractures with abundant iron staining.	690		
120				CB	(120') AMPHIBOLITE GNEISS/GNEISS; dark gray, hard, some visible thin laminations, large grains with abundant pink/orange quartz inclusions, rock is broken into gravel and iron staining present from 120-122 feet bgs.	Low water return - suspect highly fractured	685
125				CB	(128') Rock is broken into gravel.	Suspect sand due to rig crush Hole accepting water	680
130				CB	(130') Pinkish gray from 130-132 feet bgs, heavily fractured quartzite, coarse and angular to subangular sand, abundant iron staining from 130-132 feet bgs.		675
135							

NOTES: Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Boring backfilled with bentonite pellets to 207.8 ft bgs prior to well installation. Well completed with aboveground (+2.88 ft) PVC stickup with metal protective cover and guard posts set in concrete. Well depth measured from top of casing (TOC).

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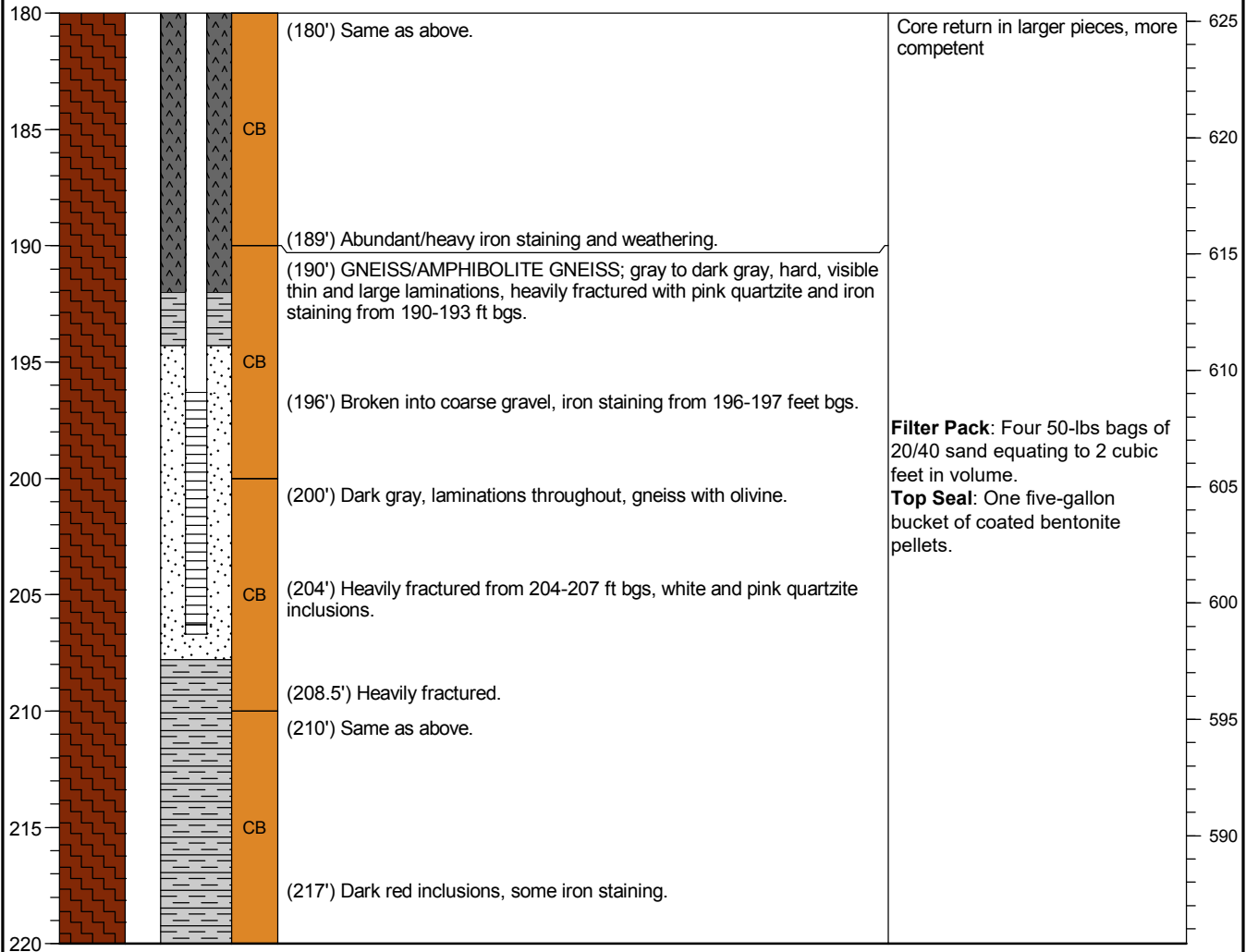
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Boring backfilled with bentonite pellets to 207.8 ft bgs prior to well installation. Well completed with aboveground (+2.88 ft) PVC stickup with metal protective cover and guard posts set in concrete. Well depth measured from top of casing (TOC).

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DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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APPENDIX C

Well Development and Equipment Calibration Forms

Atlantic Coast Consulting, Inc.

Well Development Field Record

Job Name: Plant Wansley Ash Pond

Developed By: A. Schnittker

Started Dev. 9-6-2023 / 0920
Date / Time

W.L. Before Dev. 32.87 / 9-6-2023 / 0855
BTOC / Date / Time

Well Depth Before Dev.: 209.90 BTOC

Water Column (H): 177.03 Ft. Well Dia.: 2 In.

Job No. I054-118 Well ID WGWC-28D

Date of Installation: _____ Sheet 1 of 1

Completed Dev. 9-8-2023 / 1600
Date / Time

W.L. After Dev. 150.40 / 9-8-2023 / 1600
BTOC / Date / Time

Well Depth After Dev.: 210.15 BTOC

Well Volume: 28.3 Gal. Screen Length: 10 Ft.

Date / Time	Volume Removed (Gal.)	Water Level (BTOC)	Field Parameters						Remarks
			pH (S.U.)	Specific Cond. (µS/cm)	DO mg/L	Turbidity (NTU)	Temperature (°C)	ORP (mV)	
9-6-23/16:47	13.9	80.00	7.03	700.03	0.29	18.50	31.60	154.5	
9-6-23/16:57	15.2	80.60	7.10	704.19	0.29	19.60	30.45	154.6	
9-6-23/17:07	16.5	81.50	7.22	777.23	0.29	22.00	24.91	155.2	Stopped development
9-7-23/10:04	19.2	33.99	4.61	1341.7	0.21	38.60	28.36	118.1	Restart 09:30 on 9/7
9-7-23/11:34	25.2	79.30	5.80	1406.7	0.19	21.70	27.75	-64.1	
9-7-23/11:44	26.5	81.70	5.85	1443.0	0.20	18.70	28.03	-63	
9-7-23/17:15	57.4	91.20	6.00	1879.2	0.23	4.85	22.70	-6.6	
9-7-23/17:25	58.7	91.20	6.01	1886.9	0.22	4.40	22.30	-5.7	
9-7-23/17:35	60.0	91.20	6.02	1902.3	0.20	4.13	21.85	-7.2	Stopped development
9-8-23/08:00	65.0	73.80	4.64	1692.0	0.50	11.4	18.22	113.2	Restart 07:30 on 9/8
9-8-23/08:10	66.7	79.40	5.23	1737.9	0.34	10.2	16.77	85.7	
9-8-23/08:20	68.4	86.90	5.43	1738.3	0.27	10.4	16.71	76.6	
9-8-23/15:10	136.7	150.40	5.91	1738.0	1.00	3.29	21.87	56.6	
9-8-23/15:20	138.4	150.40	5.92	1732.5	0.91	3.42	21.85	56.7	
9-8-23/15:30	140.0	150.40	5.86	1729.6	1.09	3.03	23.58	57.8	
9-8-23/15:40	141.7	150.40	5.87	1725.9	1.05	2.85	22.93	63.2	
9-8-23/15:50	143.3	150.40	5.90	1729.1	0.95	2.56	21.16	69.1	
9-8-23/16:00	145.0	150.40	5.90	1728.5	4.05	2.50	22.71	69.5	End of development
Total Volume Removed:	145 gallons								

Development Method: Predeveloped by surging with foot valve and surge block for 20 minutes. Started monsoon pump on 9/6/2023 at 10:20 to 17:07. Pumped with a reclaim pump on 9/7/23 and 9/8/23. Resurged pump until five well volumes removed and turbidity fell under 5 NTUs.

Notes: H = well depth (BTOC) - W.L. (BTOC) µS/cm = microsiemens per centimeters
 2" diameter well: 0.16 X H = volume in gallons Ft. = feet
 BTOC = Below top of casing in. inch
 W.L. = Water Level Gal. = Gallons
 DO = Dissolved oxygen NTU = Nephelometric turbidity units
 ORP = Oxidation reduction potential °C = Degrees celsius
 S.U. = Standard Units mg/L = milligrams per liter
 mV = millivolts



Daily Instrument Calibration Log

SITE: Plant Wansley AP
 TECHNICIAN: A Schmitt
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 377060

INSTRUMENT S/N: 714302
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS/ID: pH 4 LOT #: 360916 EXP. DATE: 3/25
 ID: pH 7 LOT #: 260169 EXP. DATE: 3/24
 ID: pH 10 LOT #: 266018 EXP. DATE: 7/24
 ID: Con LOT #: 260994 EXP. DATE: 5/23
 ID: ORP LOT #: 21390144 EXP. DATE: 11/23 *Midday pH check*
 ID: LOT #: EXP. DATE: *Must be less than .10*
 ID: LOT #: EXP. DATE: *(6.90-7.10 range)*
Recalibrate if not within range

Calibration Date: 09/06/23 1545
 RDO: 100% sat. = 101.96 *Midday pH check*
 PH: 4.00 = 4.56 7.00 = 7.01 10.00 = 10.07 7.0 = 7.05
 PH Recal (if needed): 4.00 = NA 7.00 = NA 10.00 = NA 7.0 = NA *post recal check*
 CONDUCTIVITY: 1413 = 1423.2 = 1409.2
 ORP (mV) 228 = 241.7 = 235.8

Calibration Date: 09/07/23 1600
 RDO: 100% sat. = 103.32 *Midday pH check*
 PH: 4.00 = 4.27 7.00 = 7.07 10.00 = 9.43 7.0 = 7.01
 PH Recal (if needed): 4.00 = 7.00 7.00 = 7.00 10.00 = 7.00 7.0 = 7.00 *post recal check*
 CONDUCTIVITY: 1413 = 1418.4 = 1407.8
 ORP (mV) 228 = 231.8 = 235.3

Calibration Date: 9/8 0745
 RDO: 100% sat. = 100.27 *Midday pH check*
 PH: 4.00 = 4.05 7.00 = 7.09 10.00 = 10.00 7.0 = 6.97
 PH Recal (if needed): 4.00 = NA 7.00 = NA 10.00 = NA 7.0 = NA *post recal check*
 CONDUCTIVITY: 1413 = 1529.1 = 1406.9
 ORP (mV) 236.3 = 203.1 =

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 McIntosh Wansley
TECHNICIAN: A Schmittler

INSTRUMENT S/N: 2022080D000803
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # PI EXP. DATE: New
10 NTU - LOT # A313a EXP. DATE: 08/24
20 NTU - LOT # A3144 EXP. DATE: 09/24

Calibration Date: 09/06/23 01545

Calibration Solution	Instrument Reading	
0.0	0.47	NTU
10.0	9.87 = 9.74	NTU
20.0	20.1	NTU

Calibration Date: 09/07/23 1000

Calibration Solution	Instrument Reading	
0.0	0.48	NTU
10.0	9.98 = 9.81	NTU
20.0	19.9	NTU

Calibration Date: 09/08 0745

Calibration Solution	Instrument Reading	
0.0	0.32	NTU
10.0	9.76 =	NTU
20.0	20.2	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 D

Certified Well Survey Data

GEL ENGINEERING OF NC INC
Plant Wansley Monitoring Wells

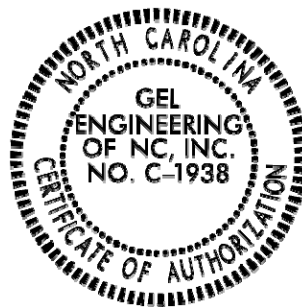
Field Surveys: 8/29/2023

Well ID	Casing Northing	Casing Easting	Top of Casing Elevation	Nail or Pad Northing	Nail or Pad Easting	Nail or Pad Elevation	Description
WGWC-28D	1243337.128	2029751.04	808.24	1243338.077	2029750.31	805.36	NAIL
Benchmark	Northing	Easting	Elevation				
BM-W1	1243475.416	2029633.083	804.08				

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING. DATE OF FIELD SURVEY & INSPECTION: 8/29/2023. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R10 & R12 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION. THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARK BM-W1 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL

Derek Bradner

9/5/2023



COA - LS003119
 Exp. 12/31/2022

APPENDIX B

Well Maintenance and Repair Documentation Memoranda



ATLANTIC COAST
CONSULTING, INC.

*Our work helps produce
a cleaner environment for all.*

Memorandum

To: Trey Singleton – Southern Company Services
From: Atlantic Coast Consulting
Date: October 7, 2023
Subject: Plant Wansley Ash Pond – Well Maintenance and Repair Documentation
Georgia Power Company

Atlantic Coast Consulting (ACC) has prepared this memorandum to provide documentation of any groundwater monitoring well maintenance and/or repairs performed at Plant Wansley Ash Pond during the 2023 Annual Groundwater Monitoring reporting period. No repairs or well maintenance were necessary during the reporting period.

Summary

Inspector initials: *AS HA* Signature(s): *[Signature]*

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

Repairs were made _____ total number of wells were repaired (see next pages for details)

Corrective action is still needed - could not complete all repairs while in the field

Wells listed in the box below still need corrective action taken (see next pages for details)

Inspections Criteria

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 well have a venting hole near the top of casing?
- d Is the depth of the well consistent with the original well log?
- e 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 Achieves the objectives of the facility Groundwater Monitoring Program and complies with the applicable regulatory requirements?

Surface Water Signs (Note all good or if missing/issues): *NA*

Well Repair Form

Date: 2/13/23

Staff/Signature: Anna Schmitter

Well ID	Good or Deficiency observed: Notes on repair or needs	Inspected by Initials
WGWA-1	Good	AS
WGWA-2	Good	AS
WGWA-3	Good	AS
WGWA-4	Good	AS
WGWA-5	Good	HA
WGWA-6	Good	HA
WGWA-7	Good	AS
WGWA-18	Good	AS
WGWC-8	Good	AS
WGWC-9	Good	AS
WGWC-10	Good	HA
WGWC-11	Good	HA
WGWC-12	Good	AS
WGWC-13	Good	AS
WGWC-14	Good	AS
WGWC-14A	Good	AS
WGWC-15	Good	AS
WGWC-16	Good	AS
WGWC-17	Good	HA
WGWC-19	Good	AS
WGWC-20	Good	AS
WGWC-21	Good	AS
WGWC-22	Good	AS
WGWC-23	Good	AS
WGWC-24	Good	AS
WGWC-25	Good	AS

Well Repair Form

Date: 2/13/23

Staff/Signature:



Well ID	Good or Deficiency observed: Notes on repair or needs	Inspected by Initials
WGWC-26D	Good	AS
WGWC-27	Good	AS
PZ-1	Good	HA
PZ-4	Good	HA
PZ-6	Good	HA
PZ-8	Good	HA
PZ-10	Good	HA
PZ-11	Good	HA
PZ-12	Good	HA
PZ-15	Good	AS
PZ-16	Good	HA
PZ-17	Good	HA
PZ-18	Good	HA
PZ-20	Good	AS
WAMW-1	Good	AS
WAMW-2	Good	AS
PB-3D	Good	AS
PB-3S	Good	AS
PB-4D	Good	AS
PB-4S	Good	AS
PB-5D	Good	AS
PB-5S	Good	AS
PB-6S	Good	AS
PB-6D	Good	AS
PB-7	Good	AS
LPZ-1	Good	HA

Well Inspection

Site Name: Plant Wansley Ash Pond 1

Date: 8/7/2023

Permit Number: _____

Field Conditions: Overcast, rain

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
WGWA-1	YES	YES	NO	YES
WGWA-2	YES	YES	NO	YES
WGWA-3	YES	YES	NO	YES
WGWA-4	YES	YES	NO	YES
WGWA-5	YES	YES	NO	YES
WGWA-6	YES	YES	NO	YES
WGWA-7	YES	YES	NO	YES
WGWA-18	YES	YES	NO	YES
WGWC-8	YES	YES	NO	YES
WGWC-9	YES	YES	NO	YES
WGWC-10	YES	YES	NO	YES
WGWC-11	YES	YES	NO	YES
WGWC-12	YES	YES	NO	YES
WGWC-13	YES	YES	NO	YES
WGWC-14A	YES	YES	NO	YES
WGWC-15	YES	YES	NO	YES
WGWC-16	YES	YES	NO	YES
WGWC-17	YES	YES	NO	YES
WGWC-19	YES	YES	NO	YES
WGWC-20	YES	YES	NO	YES
WGWC-21	YES	YES	NO	YES
WGWC-22	YES	YES	NO	YES
WGWC-23	YES	YES	NO	YES
WGWC-24	YES	YES	NO	YES
WGWC-25	YES	YES	NO	YES
WGWC-26D	YES	YES	NO	YES
WGWC-27	YES	YES	NO	YES
WGWC-28D*	YES	YES	NO	YES
PZ-1	YES	YES	NO	YES
PZ-4	YES	YES	NO	YES
PZ-6	YES	YES	NO	YES
PZ-8	YES	YES	NO	YES
PZ-10	YES	YES	NO	YES
PZ-11	YES	YES	NO	YES
PZ-12	YES	YES	NO	YES
PZ-15	YES	YES	NO	YES
PZ-16	YES	YES	NO	YES

Well Inspection

Site Name: Plant Wansley Ash Pond 1

Date: 8/7/2023

Permit Number: _____

Field Conditions: Overcast, rain

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
WGWA-1	YES	YES	YES	YES	YES
WGWA-2	YES	YES	YES	YES	YES
WGWA-3	YES	YES	YES	YES	YES
WGWA-4	YES	YES	YES	YES	YES
WGWA-5	YES	YES	YES	YES	YES
WGWA-6	YES	YES	YES	YES	YES
WGWA-7	YES	YES	YES	YES	YES
WGWA-18	YES	YES	YES	YES	YES
WGWC-8	YES	YES	YES	YES	YES
WGWC-9	YES	YES	YES	YES	YES
WGWC-10	YES	YES	YES	YES	YES
WGWC-11	YES	YES	YES	YES	YES
WGWC-12	YES	YES	YES	YES	YES
WGWC-13	YES	YES	YES	YES	YES
WGWC-14A	YES	YES	YES	YES	YES
WGWC-15	YES	YES	YES	YES	YES
WGWC-16	YES	YES	YES	YES	YES
WGWC-17	YES	YES	YES	YES	YES
WGWC-19	YES	YES	YES	YES	YES
WGWC-20	YES	YES	YES	YES	YES
WGWC-21	YES	YES	YES	YES	YES
WGWC-22	YES	YES	YES	YES	YES
WGWC-23	YES	YES	YES	YES	YES
WGWC-24	YES	YES	YES	YES	YES
WGWC-25	YES	YES	YES	YES	YES
WGWC-26D	YES	YES	YES	YES	YES
WGWC-27	YES	YES	YES	YES	YES
WGWC-28D*	YES	YES	YES	YES	YES
PZ-01	YES	YES	YES	YES	YES
PZ-04	YES	YES	YES	YES	YES
PZ-06	YES	YES	YES	YES	YES
PZ-08	YES	YES	YES	YES	YES
PZ-10	YES	YES	YES	YES	YES
PZ-11	YES	YES	YES	YES	YES
PZ-12	YES	YES	YES	YES	YES
PZ-15	YES	YES	YES	YES	YES
PZ-16	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant Wansley Ash Pond 1

Date: 8/7/2023

Permit Number: _____

Field Conditions: Overcast, rain

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
WGWA-1	YES	YES	YES	YES	YES	YES
WGWA-2	YES	YES	YES	YES	YES	YES
WGWA-3	YES	YES	YES	YES	YES	YES
WGWA-4	YES	YES	YES	YES	YES	YES
WGWA-5	YES	YES	YES	YES	YES	YES
WGWA-6	YES	YES	YES	YES	YES	YES
WGWA-7	YES	YES	YES	YES	YES	YES
WGWA-18	YES	YES	YES	YES	YES	YES
WGWC-8	YES	YES	YES	YES	YES	YES
WGWC-9	YES	YES	YES	YES	YES	YES
WGWC-10	YES	YES	YES	YES	YES	YES
WGWC-11	YES	YES	YES	YES	YES	YES
WGWC-12	YES	YES	YES	YES	YES	YES
WGWC-13	YES	YES	YES	YES	YES	YES
WGWC-14A	YES	YES	YES	YES	YES	YES
WGWC-15	YES	YES	YES	YES	YES	YES
WGWC-16	YES	YES	YES	YES	YES	YES
WGWC-17	YES	YES	YES	YES	YES	YES
WGWC-19	YES	YES	YES	YES	YES	YES
WGWC-20	YES	YES	YES	YES	YES	YES
WGWC-21	YES	YES	YES	YES	YES	YES
WGWC-22	YES	YES	YES	YES	YES	YES
WGWC-23	YES	YES	YES	YES	YES	YES
WGWC-24	YES	YES	YES	YES	YES	YES
WGWC-25	YES	YES	YES	YES	YES	YES
WGWC-26D	YES	YES	YES	YES	YES	YES
WGWC-27	YES	YES	YES	YES	YES	YES
WGWC-28D*	YES	YES	YES	YES	YES	YES
PZ-01	YES	YES	YES	YES	YES	YES
PZ-04	YES	YES	YES	YES	YES	YES
PZ-06	YES	YES	YES	YES	YES	YES
PZ-08	YES	YES	YES	YES	YES	YES
PZ-10	YES	YES	YES	YES	YES	YES
PZ-11	YES	YES	YES	YES	YES	YES
PZ-12	YES	YES	YES	YES	YES	YES
PZ-15	YES	YES	YES	YES	YES	YES
PZ-16	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant Wansley Ash Pond 1

Date: 8/7/2023

Permit Number: _____

Field Conditions: Overcast, rain

	Corrective actions as needed, by date:
Well ID:	
WGWA-1	
WGWA-2	
WGWA-3	
WGWA-4	
WGWA-5	
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	
WGWC-20	
WGWC-21	
WGWC-22	
WGWC-23	
WGWC-24	
WGWC-25	
WGWC-26D	
WGWC-27	
WGWC-28D	* = Well inspected on September 6, 2023.
PZ-01	
PZ-04	
PZ-06	
PZ-08	
PZ-10	
PZ-11	
PZ-12	
PZ-15	
PZ-16	

Well Inspection

Site Name: Plant Wansley Ash Pond 1

Date: 8/7/2023

Permit Number: _____

Field Conditions: Overcast, rain

	Corrective actions as needed, by date:
Well ID:	
PZ-17	
PZ-18	
PZ-20	
PZ-23D	
PZ-26D	
PZ-27D	
PZ-28	
PZ-29D	
PZ-29S	
WAMW-1	
WAMW-2	

APPENDIX C

Analytical Laboratory Results and Field Sampling Forms

Appendix C1: Laboratory Analytical Data Packages and Data
Validation Reports

Appendix C2: Field Sampling Forms

APPENDIX C1

Laboratory Analytical Data Packages and Data Validation Reports



ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/5/2023 9:45:46 AM

JOB DESCRIPTION

Plant Wansley - Ash Pond

JOB NUMBER

680-230721-1

Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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

Authorization



Generated
3/5/2023 9:45:46 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

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

Job ID: 680-230721-1

Qualifiers

HPLC/IC

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

Sample Summary

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

Job ID: 680-230721-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-230721-1	WAN-WGWA-1	Water	02/14/23 10:55	02/17/23 06:30
680-230721-2	WAN-WGWA-2	Water	02/14/23 12:10	02/17/23 06:30
680-230721-3	WAN-WGWA-3	Water	02/14/23 17:10	02/17/23 06:30
680-230721-4	WAN-WGWA-4	Water	02/15/23 10:05	02/17/23 06:30
680-230721-5	WAN-WGWA-5	Water	02/14/23 14:25	02/17/23 06:30
680-230721-6	WAN-WGWA-6	Water	02/14/23 15:53	02/17/23 06:30
680-230721-7	WAN-WGWA-7	Water	02/14/23 15:40	02/17/23 06:30
680-230721-8	WAN-WGWA-18	Water	02/14/23 14:20	02/17/23 06:30
680-230721-9	WAN-WGWC-15	Water	02/15/23 11:15	02/17/23 06:30
680-230721-10	WAN-WGWC-16	Water	02/15/23 12:20	02/17/23 06:30
680-230721-11	WAN-WGWC-25	Water	02/15/23 15:00	02/17/23 06:30
680-230721-12	WAN-WGWC-22	Water	02/15/23 14:40	02/17/23 06:30
680-230721-13	WAN-WGWC-24	Water	02/15/23 13:20	02/17/23 06:30
680-230721-14	WAN-WGWC-9	Water	02/15/23 16:15	02/17/23 06:30
680-230721-15	WAN-WGWC-23	Water	02/15/23 16:15	02/17/23 06:30
680-230721-16	WAN-AP1-FD-01	Water	02/15/23 00:00	02/17/23 06:30
680-230721-17	WAN-AP1-FB-07	Water	02/15/23 13:15	02/17/23 06:30
680-230721-18	WAN-AP1-EB-01	Water	02/15/23 16:30	02/17/23 06:30

Case Narrative

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

Job ID: 680-230721-1

Job ID: 680-230721-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-230721-1

Receipt

The samples were received on 2/17/2023 6:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.1°C, 2.2°C, 3.5°C and 4.3°C

HPLC/IC

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

Metals

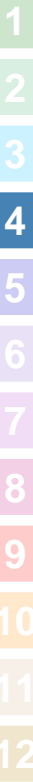
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-764123 was outside control limits: (680-230640-AD-1 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Method SM4500_S2_F: The following samples were analyzed with headspace in the sample container(s): WAN-WGWA-1 (680-230721-1), (680-230571-N-1), (680-230571-O-1 DU), WAN-WGWC-15 (680-230721-9), WAN-WGWC-16 (680-230721-10), WAN-WGWC-25 (680-230721-11), WAN-WGWC-24 (680-230721-13), WAN-WGWC-9 (680-230721-14), WAN-WGWC-23 (680-230721-15), WAN-AP1-FD-01 (680-230721-16), (680-230721-H-9 MS) and (680-230721-H-9 MSD).

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



Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWA-1

Lab Sample ID: 680-230721-1

Date Collected: 02/14/23 10:55

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.9		1.0	0.20	mg/L			02/21/23 11:26	1
Fluoride	<0.040		0.10	0.040	mg/L			02/21/23 11:26	1
Sulfate	<0.40		1.0	0.40	mg/L			02/21/23 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 21:04	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 21:04	1
Barium	0.050		0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 21:04	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 21:04	1
Boron	0.026	J B	0.080	0.022	mg/L		02/20/23 09:18	02/20/23 21:04	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 21:04	1
Calcium	1.4		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 21:04	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 21:04	1
Cobalt	0.00073	J	0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 21:04	1
Iron	<0.012		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 21:04	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 21:04	1
Lithium	0.0029	J	0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 21:04	1
Magnesium	1.3		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 21:04	1
Manganese	0.010		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 21:04	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 21:04	1
Potassium	1.3		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 21:04	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 21:04	1
Sodium	3.6		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 21:04	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 21:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:49	02/22/23 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	390		5.0	5.0	mg/L			02/21/23 20:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	390		5.0	5.0	mg/L			02/21/23 20:03	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/21/23 20:03	1
Total Dissolved Solids (SM 2540C-2011)	34		10	10	mg/L			02/20/23 12:27	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/20/23 11:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.37				SU			02/14/23 10:55	1

Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-230721-2

Date Collected: 02/14/23 12:10

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.6		1.0	0.20	mg/L			02/21/23 12:05	1
Fluoride	0.070	J	0.10	0.040	mg/L			02/21/23 12:05	1
Sulfate	0.66	J	1.0	0.40	mg/L			02/21/23 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 21:49	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 21:49	1
Barium	0.022		0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 21:49	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 21:49	1
Boron	0.023	J B	0.080	0.022	mg/L		02/20/23 09:18	02/20/23 21:49	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 21:49	1
Calcium	12		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 21:49	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 21:49	1
Cobalt	0.00052	J	0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 21:49	1
Iron	<0.012		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 21:49	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 21:49	1
Lithium	0.0060		0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 21:49	1
Magnesium	4.4		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 21:49	1
Manganese	0.033		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 21:49	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 21:49	1
Potassium	2.5		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 21:49	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 21:49	1
Sodium	9.8		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 21:49	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 21:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:50	02/22/23 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	240		5.0	5.0	mg/L			02/21/23 18:44	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	240		5.0	5.0	mg/L			02/21/23 18:44	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/21/23 18:44	1
Total Dissolved Solids (SM 2540C-2011)	100		10	10	mg/L			02/20/23 12:27	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/20/23 11:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.06				SU			02/14/23 12:10	1

Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWA-3

Lab Sample ID: 680-230721-3

Date Collected: 02/14/23 17:10

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.20	mg/L			02/21/23 12:19	1
Fluoride	0.041	J	0.10	0.040	mg/L			02/21/23 12:19	1
Sulfate	0.65	J	1.0	0.40	mg/L			02/21/23 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 21:53	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 21:53	1
Barium	0.015		0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 21:53	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 21:53	1
Boron	<0.022		0.080	0.022	mg/L		02/20/23 09:18	02/20/23 21:53	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 21:53	1
Calcium	2.0		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 21:53	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 21:53	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 21:53	1
Iron	<0.012		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 21:53	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 21:53	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 21:53	1
Magnesium	1.2		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 21:53	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 21:53	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 21:53	1
Potassium	1.4		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 21:53	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 21:53	1
Sodium	3.0		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 21:53	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 21:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:49	02/22/23 14:22	0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	270		5.0	5.0	mg/L			02/21/23 20:14	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	270		5.0	5.0	mg/L			02/21/23 20:14	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/21/23 20:14	1
Total Dissolved Solids (SM 2540C-2011)	27		10	10	mg/L			02/20/23 12:27	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/20/23 11:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.49				SU			02/14/23 17:10	1

Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-230721-4

Date Collected: 02/15/23 10:05

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.20	mg/L			02/21/23 18:00	1
Fluoride	0.14		0.10	0.040	mg/L			02/21/23 18:00	1
Sulfate	7.8		1.0	0.40	mg/L			02/21/23 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 21:41	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 21:41	1
Barium	0.0058	J	0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 21:41	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 21:41	1
Boron	<0.022		0.080	0.022	mg/L		02/20/23 09:18	02/20/23 21:41	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 21:41	1
Calcium	18		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 21:41	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 21:41	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 21:41	1
Iron	1.0		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 21:41	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 21:41	1
Lithium	0.0041	J	0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 21:41	1
Magnesium	2.8		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 21:41	1
Manganese	0.18		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 21:41	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 21:41	1
Potassium	2.9		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 21:41	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 21:41	1
Sodium	7.9		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 21:41	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 21:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:49	02/22/23 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	110		5.0	5.0	mg/L			02/22/23 00:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	110		5.0	5.0	mg/L			02/22/23 00:29	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 00:29	1
Total Dissolved Solids (SM 2540C-2011)	100		10	10	mg/L			02/21/23 12:39	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/21/23 11:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.21				SU			02/15/23 10:05	1

Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWA-5

Lab Sample ID: 680-230721-5

Date Collected: 02/14/23 14:25

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.20	mg/L			02/21/23 12:32	1
Fluoride	<0.040		0.10	0.040	mg/L			02/21/23 12:32	1
Sulfate	0.66	J	1.0	0.40	mg/L			02/21/23 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 21:08	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 21:08	1
Barium	0.018		0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 21:08	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 21:08	1
Boron	0.030	J B	0.080	0.022	mg/L		02/20/23 09:18	02/20/23 21:08	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 21:08	1
Calcium	1.3		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 21:08	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 21:08	1
Cobalt	0.0011	J	0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 21:08	1
Iron	0.055		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 21:08	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 21:08	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 21:08	1
Magnesium	0.78		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 21:08	1
Manganese	0.0066		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 21:08	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 21:08	1
Potassium	1.3		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 21:08	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 21:08	1
Sodium	1.6		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 21:08	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 21:08	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:49	02/22/23 14:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	97		5.0	5.0	mg/L			02/21/23 18:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	97		5.0	5.0	mg/L			02/21/23 18:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/21/23 18:34	1
Total Dissolved Solids (SM 2540C-2011)	24		10	10	mg/L			02/20/23 12:27	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/20/23 11:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.30				SU			02/14/23 14:25	1

Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWA-6

Lab Sample ID: 680-230721-6

Date Collected: 02/14/23 15:53

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.20	mg/L			02/21/23 12:45	1
Fluoride	0.11		0.10	0.040	mg/L			02/21/23 12:45	1
Sulfate	7.9		1.0	0.40	mg/L			02/21/23 12:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 21:37	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 21:37	1
Barium	0.0078	J	0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 21:37	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 21:37	1
Boron	<0.022		0.080	0.022	mg/L		02/20/23 09:18	02/20/23 21:37	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 21:37	1
Calcium	29		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 21:37	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 21:37	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 21:37	1
Iron	0.28		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 21:37	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 21:37	1
Lithium	0.0045	J	0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 21:37	1
Magnesium	2.4		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 21:37	1
Manganese	0.15		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 21:37	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 21:37	1
Potassium	3.4		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 21:37	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 21:37	1
Sodium	6.1		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 21:37	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 21:37	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:49	02/22/23 14:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	150		5.0	5.0	mg/L			02/22/23 00:39	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	150		5.0	5.0	mg/L			02/22/23 00:39	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 00:39	1
Total Dissolved Solids (SM 2540C-2011)	120		10	10	mg/L			02/20/23 12:27	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/20/23 11:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.78				SU			02/14/23 15:53	1

Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-230721-7

Date Collected: 02/14/23 15:40

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.20	mg/L			02/21/23 12:58	1
Fluoride	<0.040		0.10	0.040	mg/L			02/21/23 12:58	1
Sulfate	<0.40		1.0	0.40	mg/L			02/21/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 21:00	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 21:00	1
Barium	0.011		0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 21:00	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 21:00	1
Boron	0.033	J B	0.080	0.022	mg/L		02/20/23 09:18	02/20/23 21:00	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 21:00	1
Calcium	1.3		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 21:00	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 21:00	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 21:00	1
Iron	<0.012		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 21:00	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 21:00	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 21:00	1
Magnesium	0.69		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 21:00	1
Manganese	0.0024	J	0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 21:00	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 21:00	1
Potassium	0.89		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 21:00	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 21:00	1
Sodium	2.7		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 21:00	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 21:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:49	02/22/23 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	160		5.0	5.0	mg/L			02/22/23 00:59	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	160		5.0	5.0	mg/L			02/22/23 00:59	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 00:59	1
Total Dissolved Solids (SM 2540C-2011)	24		10	10	mg/L			02/20/23 12:27	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/20/23 11:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.44				SU			02/14/23 15:40	1

Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWA-18

Lab Sample ID: 680-230721-8

Date Collected: 02/14/23 14:20

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.20	mg/L			02/21/23 13:11	1
Fluoride	0.053	J	0.10	0.040	mg/L			02/21/23 13:11	1
Sulfate	7.3		1.0	0.40	mg/L			02/21/23 13:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 22:10	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 22:10	1
Barium	0.013		0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 22:10	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 22:10	1
Boron	<0.022		0.080	0.022	mg/L		02/20/23 09:18	02/20/23 22:10	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 22:10	1
Calcium	5.7		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 22:10	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 22:10	1
Cobalt	0.0010	J	0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 22:10	1
Iron	0.11		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 22:10	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 22:10	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 22:10	1
Magnesium	1.3		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 22:10	1
Manganese	0.11		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 22:10	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 22:10	1
Potassium	2.5		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 22:10	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 22:10	1
Sodium	4.4		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 22:10	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 22:10	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:57	02/22/23 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	83		5.0	5.0	mg/L			02/22/23 00:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	83		5.0	5.0	mg/L			02/22/23 00:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 00:49	1
Total Dissolved Solids (SM 2540C-2011)	42		10	10	mg/L			02/20/23 12:27	1
Sulfide (SM 4500 S2 F-2011)	1.2		0.81	0.81	mg/L			02/20/23 14:36	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.89				SU			02/14/23 14:20	1

Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-230721-9

Date Collected: 02/15/23 11:15

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0		1.0	0.20	mg/L			02/21/23 18:40	1
Fluoride	0.73		0.10	0.040	mg/L			02/21/23 18:40	1
Sulfate	14		1.0	0.40	mg/L			02/21/23 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 21:57	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 21:57	1
Barium	0.029		0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 21:57	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 21:57	1
Boron	<0.022		0.080	0.022	mg/L		02/20/23 09:18	02/20/23 21:57	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 21:57	1
Calcium	31		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 21:57	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 21:57	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 21:57	1
Iron	0.012	J	0.050	0.012	mg/L		02/20/23 09:18	02/20/23 21:57	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 21:57	1
Lithium	0.0062		0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 21:57	1
Magnesium	5.0		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 21:57	1
Manganese	0.0074		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 21:57	1
Molybdenum	0.0027	J	0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 21:57	1
Potassium	1.5		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 21:57	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 21:57	1
Sodium	10		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 21:57	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 21:57	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:57	02/22/23 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	130		5.0	5.0	mg/L			02/21/23 20:24	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	130		5.0	5.0	mg/L			02/21/23 20:24	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/21/23 20:24	1
Total Dissolved Solids (SM 2540C-2011)	130		10	10	mg/L			02/21/23 12:39	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/21/23 11:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.72				SU			02/15/23 11:15	1

Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWC-16

Lab Sample ID: 680-230721-10

Date Collected: 02/15/23 12:20

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		1.0	0.20	mg/L			02/21/23 18:53	1
Fluoride	0.076	J	0.10	0.040	mg/L			02/21/23 18:53	1
Sulfate	54		1.0	0.40	mg/L			02/21/23 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 21:29	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 21:29	1
Barium	0.044		0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 21:29	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 21:29	1
Boron	0.86	B	0.080	0.022	mg/L		02/20/23 09:18	02/20/23 21:29	1
Cadmium	0.000085	J	0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 21:29	1
Calcium	26		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 21:29	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 21:29	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 21:29	1
Iron	<0.012		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 21:29	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 21:29	1
Lithium	0.0044	J	0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 21:29	1
Magnesium	8.4		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 21:29	1
Manganese	0.017		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 21:29	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 21:29	1
Potassium	2.8		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 21:29	1
Selenium	0.0019	J	0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 21:29	1
Sodium	12		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 21:29	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 21:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:49	02/22/23 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	260		5.0	5.0	mg/L			02/21/23 20:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	260		5.0	5.0	mg/L			02/21/23 20:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/21/23 20:34	1
Total Dissolved Solids (SM 2540C-2011)	160		40	40	mg/L			02/21/23 12:39	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/21/23 11:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.19				SU			02/15/23 12:20	1

Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWC-25

Lab Sample ID: 680-230721-11

Date Collected: 02/15/23 15:00

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79		1.0	0.20	mg/L			02/21/23 19:06	1
Fluoride	<0.040		0.10	0.040	mg/L			02/21/23 19:06	1
Sulfate	27		1.0	0.40	mg/L			02/21/23 19:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 21:45	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 21:45	1
Barium	0.33		0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 21:45	1
Beryllium	0.00026	J	0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 21:45	1
Boron	0.89	B	0.080	0.022	mg/L		02/20/23 09:18	02/20/23 21:45	1
Cadmium	0.00010	J	0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 21:45	1
Calcium	18		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 21:45	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 21:45	1
Cobalt	0.0049		0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 21:45	1
Iron	0.11		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 21:45	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 21:45	1
Lithium	0.0031	J	0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 21:45	1
Magnesium	22		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 21:45	1
Manganese	0.27		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 21:45	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 21:45	1
Potassium	3.8		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 21:45	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 21:45	1
Sodium	12		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 21:45	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 21:45	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:49	02/22/23 14:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	8.0		5.0	5.0	mg/L			02/21/23 20:41	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	8.0		5.0	5.0	mg/L			02/21/23 20:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/21/23 20:41	1
Total Dissolved Solids (SM 2540C-2011)	200		40	40	mg/L			02/21/23 12:39	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/21/23 11:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.36				SU			02/15/23 15:00	1

Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWC-22

Lab Sample ID: 680-230721-12

Date Collected: 02/15/23 14:40

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.6		1.0	0.20	mg/L			02/21/23 19:19	1
Fluoride	0.31		0.10	0.040	mg/L			02/21/23 19:19	1
Sulfate	110		1.0	0.40	mg/L			02/21/23 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0012	J	0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 22:14	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 22:14	1
Barium	0.033		0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 22:14	1
Beryllium	0.00067	J	0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 22:14	1
Boron	0.39	B	0.080	0.022	mg/L		02/20/23 09:18	02/20/23 22:14	1
Cadmium	0.00028	J	0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 22:14	1
Calcium	26		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 22:14	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 22:14	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 22:14	1
Iron	0.13		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 22:14	1
Lead	0.00023	J	0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 22:14	1
Lithium	0.0090		0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 22:14	1
Magnesium	6.4		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 22:14	1
Manganese	0.018		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 22:14	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 22:14	1
Potassium	6.3		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 22:14	1
Selenium	0.0077		0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 22:14	1
Sodium	24		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 22:14	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 22:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:50	02/22/23 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	340		5.0	5.0	mg/L			02/21/23 20:53	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	340		5.0	5.0	mg/L			02/21/23 20:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/21/23 20:53	1
Total Dissolved Solids (SM 2540C-2011)	210		40	40	mg/L			02/21/23 12:39	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/21/23 11:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.47				SU			02/15/23 14:40	1

Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWC-24

Lab Sample ID: 680-230721-13

Date Collected: 02/15/23 13:20

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39		1.0	0.20	mg/L			02/21/23 19:33	1
Fluoride	0.63		0.10	0.040	mg/L			02/21/23 19:33	1
Sulfate	120		1.0	0.40	mg/L			02/21/23 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 20:52	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 20:52	1
Barium	0.036		0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 20:52	1
Beryllium	0.0099		0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 20:52	1
Boron	1.4	B	0.080	0.022	mg/L		02/20/23 09:18	02/20/23 20:52	1
Cadmium	0.00057	J	0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 20:52	1
Calcium	39		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 20:52	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 20:52	1
Cobalt	0.084		0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 20:52	1
Iron	<0.012		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 20:52	1
Lead	0.00056	J	0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 20:52	1
Lithium	0.0068		0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 20:52	1
Magnesium	7.7		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 20:52	1
Manganese	2.8		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 20:52	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 20:52	1
Potassium	8.8		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 20:52	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 20:52	1
Sodium	9.9		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 20:52	1
Thallium	0.00045	J	0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 20:52	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:49	02/22/23 14:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	9.0		5.0	5.0	mg/L			02/22/23 01:36	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	9.0		5.0	5.0	mg/L			02/22/23 01:36	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 01:36	1
Total Dissolved Solids (SM 2540C-2011)	230		40	40	mg/L			02/21/23 12:39	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/21/23 11:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.54				SU			02/15/23 13:20	1

Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-230721-14

Date Collected: 02/15/23 16:15

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.9		1.0	0.20	mg/L			02/22/23 00:35	1
Fluoride	0.85		0.10	0.040	mg/L			02/22/23 00:35	1
Sulfate	65		1.0	0.40	mg/L			02/22/23 00:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00048	J	0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 20:40	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 20:40	1
Barium	<0.00089		0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 20:40	1
Beryllium	0.00044	J	0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 20:40	1
Boron	0.69	B	0.080	0.022	mg/L		02/20/23 09:18	02/20/23 20:40	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 20:40	1
Calcium	11		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 20:40	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 20:40	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 20:40	1
Iron	<0.012		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 20:40	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 20:40	1
Lithium	0.033		0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 20:40	1
Magnesium	3.1		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 20:40	1
Manganese	0.0052		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 20:40	1
Molybdenum	0.0025	J	0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 20:40	1
Potassium	1.5		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 20:40	1
Selenium	0.0037	J	0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 20:40	1
Sodium	25		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 20:40	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 20:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:49	02/22/23 14:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	140		5.0	5.0	mg/L			02/22/23 01:52	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	140		5.0	5.0	mg/L			02/22/23 01:52	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 01:52	1
Total Dissolved Solids (SM 2540C-2011)	160		10	10	mg/L			02/21/23 12:39	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/21/23 11:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.86				SU			02/15/23 16:15	1

Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-230721-15

Date Collected: 02/15/23 16:15

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.20	mg/L			02/21/23 22:50	1
Fluoride	0.048	J	0.10	0.040	mg/L			02/21/23 22:50	1
Sulfate	5.2		1.0	0.40	mg/L			02/21/23 22:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0022		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 20:56	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 20:56	1
Barium	0.0055	J	0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 20:56	1
Beryllium	0.0012	J	0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 20:56	1
Boron	0.049	J B	0.080	0.022	mg/L		02/20/23 09:18	02/20/23 20:56	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 20:56	1
Calcium	2.4		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 20:56	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 20:56	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 20:56	1
Iron	<0.012		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 20:56	1
Lead	0.0046		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 20:56	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 20:56	1
Magnesium	0.45	J	0.50	0.023	mg/L		02/20/23 09:18	02/20/23 20:56	1
Manganese	0.0038	J	0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 20:56	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 20:56	1
Potassium	2.2		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 20:56	1
Selenium	0.0026	J	0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 20:56	1
Sodium	13		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 20:56	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 20:56	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:49	02/22/23 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	82		5.0	5.0	mg/L			02/21/23 21:02	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	82		5.0	5.0	mg/L			02/21/23 21:02	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/21/23 21:02	1
Total Dissolved Solids (SM 2540C-2011)	71		10	10	mg/L			02/21/23 12:39	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/21/23 11:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.49				SU			02/15/23 16:15	1

Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-AP1-FD-01

Lab Sample ID: 680-230721-16

Date Collected: 02/15/23 00:00

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		1.0	0.20	mg/L			02/21/23 23:03	1
Fluoride	0.074	J	0.10	0.040	mg/L			02/21/23 23:03	1
Sulfate	54		1.0	0.40	mg/L			02/21/23 23:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 21:21	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 21:21	1
Barium	0.043		0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 21:21	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 21:21	1
Boron	0.82	B	0.080	0.022	mg/L		02/20/23 09:18	02/20/23 21:21	1
Cadmium	0.00011	J	0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 21:21	1
Calcium	24		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 21:21	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 21:21	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 21:21	1
Iron	0.015	J	0.050	0.012	mg/L		02/20/23 09:18	02/20/23 21:21	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 21:21	1
Lithium	0.0040	J	0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 21:21	1
Magnesium	8.2		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 21:21	1
Manganese	0.018		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 21:21	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 21:21	1
Potassium	2.7		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 21:21	1
Selenium	0.0016	J	0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 21:21	1
Sodium	11		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 21:21	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 21:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:49	02/22/23 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	30		5.0	5.0	mg/L			02/22/23 01:07	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	27		5.0	5.0	mg/L			02/22/23 01:07	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 01:07	1
Total Dissolved Solids (SM 2540C-2011)	170		40	40	mg/L			02/21/23 12:39	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/21/23 11:30	1

Client Sample ID: WAN-AP1-FB-07

Lab Sample ID: 680-230721-17

Date Collected: 02/15/23 13:15

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/21/23 23:16	1
Fluoride	<0.040		0.10	0.040	mg/L			02/21/23 23:16	1
Sulfate	<0.40		1.0	0.40	mg/L			02/21/23 23:16	1

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Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-AP1-FB-07

Lab Sample ID: 680-230721-17

Date Collected: 02/15/23 13:15

Matrix: Water

Date Received: 02/17/23 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 21:25	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 21:25	1
Barium	0.016		0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 21:25	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 21:25	1
Boron	0.024	J B	0.080	0.022	mg/L		02/20/23 09:18	02/20/23 21:25	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 21:25	1
Calcium	<0.14		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 21:25	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 21:25	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 21:25	1
Iron	<0.012		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 21:25	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 21:25	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 21:25	1
Magnesium	<0.023		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 21:25	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 21:25	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 21:25	1
Potassium	<0.044		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 21:25	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 21:25	1
Sodium	<0.20		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 21:25	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 21:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:49	02/22/23 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	110		5.0	5.0	mg/L			02/21/23 21:12	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	110		5.0	5.0	mg/L			02/21/23 21:12	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/21/23 21:12	1
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/21/23 12:39	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/21/23 11:30	1

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-230721-18

Date Collected: 02/15/23 16:30

Matrix: Water

Date Received: 02/17/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/21/23 23:29	1
Fluoride	<0.040		0.10	0.040	mg/L			02/21/23 23:29	1
Sulfate	<0.40		1.0	0.40	mg/L			02/21/23 23:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 21:33	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 21:33	1
Barium	0.0046	J	0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 21:33	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 21:33	1

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Client Sample Results

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

Job ID: 680-230721-1

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-230721-18

Date Collected: 02/15/23 16:30

Matrix: Water

Date Received: 02/17/23 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.022	J B	0.080	0.022	mg/L		02/20/23 09:18	02/20/23 21:33	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 21:33	1
Calcium	<0.14		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 21:33	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 21:33	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 21:33	1
Iron	<0.012		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 21:33	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 21:33	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 21:33	1
Magnesium	<0.023		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 21:33	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 21:33	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 21:33	1
Potassium	<0.044		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 21:33	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 21:33	1
Sodium	<0.20		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 21:33	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 21:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:49	02/22/23 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	130		5.0	5.0	mg/L			02/21/23 21:22	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	130		5.0	5.0	mg/L			02/21/23 21:22	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/21/23 21:22	1
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/21/23 12:39	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/21/23 11:30	1

QC Sample Results

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

Job ID: 680-230721-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-764277/2
Matrix: Water
Analysis Batch: 764277

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/21/23 10:16	1
Fluoride	<0.040		0.10	0.040	mg/L			02/21/23 10:16	1
Sulfate	<0.40		1.0	0.40	mg/L			02/21/23 10:16	1

Lab Sample ID: LCS 680-764277/4
Matrix: Water
Analysis Batch: 764277

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.6		mg/L		106	90 - 110
Fluoride	2.00	2.15		mg/L		107	90 - 110
Sulfate	10.0	10.3		mg/L		103	90 - 110

Lab Sample ID: LCSD 680-764277/5
Matrix: Water
Analysis Batch: 764277

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.6		mg/L		106	90 - 110	0	15
Fluoride	2.00	2.19		mg/L		109	90 - 110	2	15
Sulfate	10.0	10.6		mg/L		106	90 - 110	2	15

Lab Sample ID: 680-230721-1 MS
Matrix: Water
Analysis Batch: 764277

Client Sample ID: WAN-WGWA-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.9		10.0	14.2		mg/L		103	80 - 120
Fluoride	<0.040		2.00	2.20		mg/L		110	80 - 120
Sulfate	<0.40		10.0	9.84		mg/L		98	80 - 120

Lab Sample ID: 680-230721-1 MSD
Matrix: Water
Analysis Batch: 764277

Client Sample ID: WAN-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	3.9		10.0	14.0		mg/L		102	80 - 120	1	15
Fluoride	<0.040		2.00	2.17		mg/L		108	80 - 120	1	15
Sulfate	<0.40		10.0	9.93		mg/L		99	80 - 120	1	15

Lab Sample ID: MB 680-764278/33
Matrix: Water
Analysis Batch: 764278

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/21/23 17:21	1
Fluoride	<0.040		0.10	0.040	mg/L			02/21/23 17:21	1
Sulfate	<0.40		1.0	0.40	mg/L			02/21/23 17:21	1

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QC Sample Results

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

Job ID: 680-230721-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-764278/34
Matrix: Water
Analysis Batch: 764278

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.5		mg/L		105	90 - 110
Fluoride	2.00	2.13		mg/L		107	90 - 110
Sulfate	10.0	10.3		mg/L		103	90 - 110

Lab Sample ID: LCSD 680-764278/35
Matrix: Water
Analysis Batch: 764278

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.5		mg/L		105	90 - 110	0	15
Fluoride	2.00	2.15		mg/L		107	90 - 110	1	15
Sulfate	10.0	10.4		mg/L		104	90 - 110	1	15

Lab Sample ID: 680-230721-4 MS
Matrix: Water
Analysis Batch: 764278

Client Sample ID: WAN-WGWA-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1.2		10.0	10.9		mg/L		97	80 - 120
Fluoride	0.14		2.00	2.19		mg/L		103	80 - 120
Sulfate	7.8		10.0	17.4		mg/L		96	80 - 120

Lab Sample ID: 680-230721-4 MSD
Matrix: Water
Analysis Batch: 764278

Client Sample ID: WAN-WGWA-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1.2		10.0	10.9		mg/L		97	80 - 120	0	15
Fluoride	0.14		2.00	2.19		mg/L		103	80 - 120	0	15
Sulfate	7.8		10.0	17.5		mg/L		97	80 - 120	1	15

Lab Sample ID: 680-230722-G-6 MS
Matrix: Water
Analysis Batch: 764278

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	60		10.0	70.0	4	mg/L		97	80 - 120
Fluoride	<0.040		2.00	2.23		mg/L		111	80 - 120
Sulfate	43		10.0	52.8	4	mg/L		101	80 - 120

Lab Sample ID: 680-230722-G-6 MSD
Matrix: Water
Analysis Batch: 764278

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	60		10.0	70.0	4	mg/L		97	80 - 120	0	15
Fluoride	<0.040		2.00	2.25		mg/L		112	80 - 120	1	15
Sulfate	43		10.0	52.9	4	mg/L		102	80 - 120	0	15

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QC Sample Results

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

Job ID: 680-230721-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 680-764279/63
Matrix: Water
Analysis Batch: 764279

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/21/23 23:56	1
Fluoride	<0.040		0.10	0.040	mg/L			02/21/23 23:56	1
Sulfate	<0.40		1.0	0.40	mg/L			02/21/23 23:56	1

Lab Sample ID: LCS 680-764279/64
Matrix: Water
Analysis Batch: 764279

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.4		mg/L		104	90 - 110
Fluoride	2.00	2.11		mg/L		106	90 - 110
Sulfate	10.0	10.3		mg/L		103	90 - 110

Lab Sample ID: LCSD 680-764279/65
Matrix: Water
Analysis Batch: 764279

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.4		mg/L		104	90 - 110	0	15
Fluoride	2.00	2.11		mg/L		106	90 - 110	0	15
Sulfate	10.0	10.3		mg/L		103	90 - 110	0	15

Lab Sample ID: 680-230721-14 MS
Matrix: Water
Analysis Batch: 764279

Client Sample ID: WAN-WGWC-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.9		10.0	13.7		mg/L		98	80 - 120
Fluoride	0.85		2.00	2.93		mg/L		104	80 - 120
Sulfate	65		10.0	74.1	4	mg/L		93	80 - 120

Lab Sample ID: 680-230721-14 MSD
Matrix: Water
Analysis Batch: 764279

Client Sample ID: WAN-WGWC-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.9		10.0	14.0		mg/L		102	80 - 120	3	15
Fluoride	0.85		2.00	3.01		mg/L		108	80 - 120	3	15
Sulfate	65		10.0	74.4	4	mg/L		97	80 - 120	1	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-764052/1-A
Matrix: Water
Analysis Batch: 764211

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764052

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/23 09:18	02/20/23 20:32	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/23 09:18	02/20/23 20:32	1
Barium	<0.00089		0.010	0.00089	mg/L		02/20/23 09:18	02/20/23 20:32	1

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QC Sample Results

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

Job ID: 680-230721-1

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

Lab Sample ID: MB 680-764052/1-A
Matrix: Water
Analysis Batch: 764211

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764052

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/23 09:18	02/20/23 20:32	1
Boron	0.0338	J	0.080	0.022	mg/L		02/20/23 09:18	02/20/23 20:32	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/23 09:18	02/20/23 20:32	1
Calcium	<0.14		0.50	0.14	mg/L		02/20/23 09:18	02/20/23 20:32	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/23 09:18	02/20/23 20:32	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/23 09:18	02/20/23 20:32	1
Iron	<0.012		0.050	0.012	mg/L		02/20/23 09:18	02/20/23 20:32	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/23 09:18	02/20/23 20:32	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/23 09:18	02/20/23 20:32	1
Magnesium	<0.023		0.50	0.023	mg/L		02/20/23 09:18	02/20/23 20:32	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/20/23 09:18	02/20/23 20:32	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/23 09:18	02/20/23 20:32	1
Potassium	<0.044		0.50	0.044	mg/L		02/20/23 09:18	02/20/23 20:32	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/23 09:18	02/20/23 20:32	1
Sodium	<0.20		0.50	0.20	mg/L		02/20/23 09:18	02/20/23 20:32	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/23 09:18	02/20/23 20:32	1

Lab Sample ID: LCS 680-764052/2-A
Matrix: Water
Analysis Batch: 764211

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764052

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.103		mg/L		103	80 - 120
Barium	0.100	0.0952		mg/L		95	80 - 120
Beryllium	0.0500	0.0487		mg/L		97	80 - 120
Boron	0.200	0.222		mg/L		111	80 - 120
Cadmium	0.0500	0.0489		mg/L		98	80 - 120
Calcium	5.00	4.87		mg/L		97	80 - 120
Chromium	0.100	0.0942		mg/L		94	80 - 120
Cobalt	0.0500	0.0505		mg/L		101	80 - 120
Iron	5.00	5.00		mg/L		100	80 - 120
Lead	0.505	0.489		mg/L		97	80 - 120
Lithium	0.500	0.495		mg/L		99	80 - 120
Magnesium	5.01	5.00		mg/L		100	80 - 120
Manganese	0.400	0.394		mg/L		99	80 - 120
Molybdenum	0.100	0.103		mg/L		103	80 - 120
Potassium	6.97	6.84		mg/L		98	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Sodium	5.05	5.05		mg/L		100	80 - 120
Thallium	0.0500	0.0463		mg/L		93	80 - 120

Lab Sample ID: 680-230721-14 MS
Matrix: Water
Analysis Batch: 764211

Client Sample ID: WAN-WGWC-9
Prep Type: Total Recoverable
Prep Batch: 764052

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result	Qualifier							
Antimony	0.00048	J	0.0500	0.0500		mg/L		99	75 - 125
Arsenic	<0.00086		0.100	0.103		mg/L		103	75 - 125

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QC Sample Results

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

Job ID: 680-230721-1

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

Lab Sample ID: 680-230721-14 MS
Matrix: Water
Analysis Batch: 764211

Client Sample ID: WAN-WGWC-9
Prep Type: Total Recoverable
Prep Batch: 764052

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	<0.00089		0.100	0.0988		mg/L		99	75 - 125
Beryllium	0.00044	J	0.0500	0.0492		mg/L		97	75 - 125
Boron	0.69	B	0.200	0.837		mg/L		75	75 - 125
Cadmium	<0.000078		0.0500	0.0502		mg/L		100	75 - 125
Calcium	11		5.00	16.2		mg/L		100	75 - 125
Chromium	<0.0012		0.100	0.0969		mg/L		97	75 - 125
Cobalt	<0.00022		0.0500	0.0525		mg/L		105	75 - 125
Iron	<0.012		5.00	5.25		mg/L		105	75 - 125
Lead	<0.00021		0.505	0.502		mg/L		100	75 - 125
Lithium	0.033		0.500	0.538		mg/L		101	75 - 125
Magnesium	3.1		5.01	8.27		mg/L		102	75 - 125
Manganese	0.0052		0.400	0.414		mg/L		102	75 - 125
Molybdenum	0.0025	J	0.100	0.107		mg/L		105	75 - 125
Potassium	1.5		6.97	8.63		mg/L		102	75 - 125
Selenium	0.0037	J	0.100	0.111		mg/L		107	75 - 125
Sodium	25		5.05	29.3	4	mg/L		91	75 - 125
Thallium	<0.00026		0.0500	0.0485		mg/L		97	75 - 125

Lab Sample ID: 680-230721-14 MSD
Matrix: Water
Analysis Batch: 764211

Client Sample ID: WAN-WGWC-9
Prep Type: Total Recoverable
Prep Batch: 764052

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	0.00048	J	0.0500	0.0527		mg/L		104	75 - 125	5	20
Arsenic	<0.00086		0.100	0.110		mg/L		110	75 - 125	6	20
Barium	<0.00089		0.100	0.104		mg/L		104	75 - 125	5	20
Beryllium	0.00044	J	0.0500	0.0529		mg/L		105	75 - 125	7	20
Boron	0.69	B	0.200	0.877		mg/L		95	75 - 125	5	20
Cadmium	<0.000078		0.0500	0.0532		mg/L		106	75 - 125	6	20
Calcium	11		5.00	16.5		mg/L		107	75 - 125	2	20
Chromium	<0.0012		0.100	0.102		mg/L		102	75 - 125	6	20
Cobalt	<0.00022		0.0500	0.0558		mg/L		112	75 - 125	6	20
Iron	<0.012		5.00	5.55		mg/L		111	75 - 125	6	20
Lead	<0.00021		0.505	0.533		mg/L		106	75 - 125	6	20
Lithium	0.033		0.500	0.576		mg/L		109	75 - 125	7	20
Magnesium	3.1		5.01	8.60		mg/L		109	75 - 125	4	20
Manganese	0.0052		0.400	0.435		mg/L		107	75 - 125	5	20
Molybdenum	0.0025	J	0.100	0.114		mg/L		111	75 - 125	6	20
Potassium	1.5		6.97	8.93		mg/L		106	75 - 125	3	20
Selenium	0.0037	J	0.100	0.116		mg/L		113	75 - 125	5	20
Sodium	25		5.05	29.6	4	mg/L		97	75 - 125	1	20
Thallium	<0.00026		0.0500	0.0510		mg/L		102	75 - 125	5	20

QC Sample Results

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

Job ID: 680-230721-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-764333/12-A
Matrix: Water
Analysis Batch: 764581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 764333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:49	02/22/23 13:30	1

Lab Sample ID: LCS 680-764333/13-A
Matrix: Water
Analysis Batch: 764581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 764333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00258		mg/L		103	80 - 120

Lab Sample ID: 680-230721-1 MS
Matrix: Water
Analysis Batch: 764581

Client Sample ID: WAN-WGWA-1
Prep Type: Total/NA
Prep Batch: 764333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080		0.00100	0.000900		mg/L		90	80 - 120

Lab Sample ID: 680-230721-1 MSD
Matrix: Water
Analysis Batch: 764581

Client Sample ID: WAN-WGWA-1
Prep Type: Total/NA
Prep Batch: 764333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080		0.00100	0.000919		mg/L		92	80 - 120	2	20

Lab Sample ID: MB 680-764336/1-A
Matrix: Water
Analysis Batch: 764581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 764336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:57	02/22/23 11:54	1

Lab Sample ID: LCS 680-764336/2-A
Matrix: Water
Analysis Batch: 764581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 764336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00266		mg/L		107	80 - 120

Lab Sample ID: 680-230805-G-12-E MS
Matrix: Water
Analysis Batch: 764581

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 764336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080		0.00100	0.000984		mg/L		98	80 - 120

Lab Sample ID: 680-230805-G-12-F MSD
Matrix: Water
Analysis Batch: 764581

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 764336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080		0.00100	0.000998		mg/L		100	80 - 120	1	20

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QC Sample Results

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

Job ID: 680-230721-1

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-764461/4
Matrix: Water
Analysis Batch: 764461

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	<5.0		5.0	5.0	mg/L			02/21/23 16:52	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/21/23 16:52	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/21/23 16:52	1

Lab Sample ID: LCS 680-764461/6
Matrix: Water
Analysis Batch: 764461

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	250	251		mg/L		100	90 - 112

Lab Sample ID: LCSD 680-764461/31
Matrix: Water
Analysis Batch: 764461

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	256		mg/L		102	90 - 112	2	30

Lab Sample ID: 680-230703-D-6 DU
Matrix: Water
Analysis Batch: 764461

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	790		799		mg/L		1	30
Bicarbonate Alkalinity as CaCO3	790		799		mg/L		1	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Lab Sample ID: 680-230705-C-1 DU
Matrix: Water
Analysis Batch: 764461

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	450		449		mg/L		1	30
Bicarbonate Alkalinity as CaCO3	450		449		mg/L		1	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Lab Sample ID: MB 680-764465/4
Matrix: Water
Analysis Batch: 764465

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	<5.0		5.0	5.0	mg/L			02/22/23 23:02	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/22/23 23:02	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/22/23 23:02	1

QC Sample Results

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

Job ID: 680-230721-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 680-764465/6
Matrix: Water
Analysis Batch: 764465

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	250	251		mg/L		101	90 - 112

Lab Sample ID: LCSD 680-764465/31
Matrix: Water
Analysis Batch: 764465

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	254		mg/L		102	90 - 112	1	30

Lab Sample ID: 680-230721-13 DU
Matrix: Water
Analysis Batch: 764465

Client Sample ID: WAN-WGWC-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	9.0		6.64		mg/L		30	30
Bicarbonate Alkalinity as CaCO3	9.0		6.64		mg/L		30	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-764123/1
Matrix: Water
Analysis Batch: 764123

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			02/20/23 12:27	1

Lab Sample ID: LCS 680-764123/2
Matrix: Water
Analysis Batch: 764123

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	2340	2370		mg/L		101	80 - 120

Lab Sample ID: LCSD 680-764123/3
Matrix: Water
Analysis Batch: 764123

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2340	2340		mg/L		100	80 - 120	1	25

Lab Sample ID: 680-230617-C-1 DU
Matrix: Water
Analysis Batch: 764123

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1200		1250		mg/L		0.2	5

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QC Sample Results

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

Job ID: 680-230721-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: 680-230640-AD-1 DU
Matrix: Water
Analysis Batch: 764123

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	260		234	F3	mg/L		11	5

Lab Sample ID: MB 680-764319/1
Matrix: Water
Analysis Batch: 764319

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			02/21/23 12:39	1

Lab Sample ID: LCS 680-764319/2
Matrix: Water
Analysis Batch: 764319

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	2340	2430		mg/L		104	80 - 120

Lab Sample ID: LCSD 680-764319/3
Matrix: Water
Analysis Batch: 764319

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2340	2430		mg/L		104	80 - 120	0	25

Lab Sample ID: 680-230617-B-2 DU
Matrix: Water
Analysis Batch: 764319

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1200		1220		mg/L		1	5

Lab Sample ID: 680-230730-X-1 DU
Matrix: Water
Analysis Batch: 764319

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	230		232		mg/L		3	5

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-764112/1
Matrix: Water
Analysis Batch: 764112

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			02/20/23 11:44	1

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QC Sample Results

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

Job ID: 680-230721-1

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: LCS 680-764112/2
Matrix: Water
Analysis Batch: 764112

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	8.90		mg/L		89	75 - 125

Lab Sample ID: LCSD 680-764112/3
Matrix: Water
Analysis Batch: 764112

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	10.0	9.09		mg/L		91	75 - 125	2	30

Lab Sample ID: 680-230678-D-4 MS
Matrix: Water
Analysis Batch: 764112

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.81		6.50	5.48		mg/L		84	75 - 125

Lab Sample ID: 680-230678-D-4 MSD
Matrix: Water
Analysis Batch: 764112

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.81		6.50	5.48		mg/L		84	75 - 125	0	30

Lab Sample ID: 680-230571-O-1 DU
Matrix: Water
Analysis Batch: 764112

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	1.3		1.52		mg/L		18	30

Lab Sample ID: MB 680-764160/1
Matrix: Water
Analysis Batch: 764160

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			02/20/23 14:36	1

Lab Sample ID: LCS 680-764160/2
Matrix: Water
Analysis Batch: 764160

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	8.44		mg/L		84	75 - 125

Lab Sample ID: LCSD 680-764160/3
Matrix: Water
Analysis Batch: 764160

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	10.0	8.87		mg/L		89	75 - 125	5	30

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QC Sample Results

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

Job ID: 680-230721-1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: 680-230725-D-15 MS
Matrix: Water
Analysis Batch: 764160

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.81		6.50	6.73		mg/L		104	75 - 125

Lab Sample ID: 680-230725-D-15 MSD
Matrix: Water
Analysis Batch: 764160

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.81		6.50	6.73		mg/L		104	75 - 125	0	30

Lab Sample ID: 680-230725-D-8 DU
Matrix: Water
Analysis Batch: 764160

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	<0.81		<0.81		mg/L		NC	30

Lab Sample ID: MB 680-764297/1
Matrix: Water
Analysis Batch: 764297

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			02/21/23 11:30	1

Lab Sample ID: LCS 680-764297/2
Matrix: Water
Analysis Batch: 764297

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	9.08		mg/L		91	75 - 125

Lab Sample ID: LCSD 680-764297/3
Matrix: Water
Analysis Batch: 764297

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	10.0	8.90		mg/L		89	75 - 125	2	30

Lab Sample ID: LLCS 680-764297/4
Matrix: Water
Analysis Batch: 764297

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	1.00	<1.0		mg/L		90	

Lab Sample ID: 680-230721-9 MS
Matrix: Water
Analysis Batch: 764297

Client Sample ID: WAN-WGWC-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.83		6.94	7.57		mg/L		109	75 - 125

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QC Sample Results

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

Job ID: 680-230721-1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: 680-230721-9 MSD
Matrix: Water
Analysis Batch: 764297

Client Sample ID: WAN-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
Sulfide	<0.83		6.94	7.57		mg/L		109	75 - 125	0	30

Lab Sample ID: 680-230640-O-1 DU
Matrix: Water
Analysis Batch: 764297

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	<0.86		<0.81		mg/L		NC	30



QC Association Summary

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

Job ID: 680-230721-1

HPLC/IC

Analysis Batch: 764277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-1	WAN-WGWA-1	Total/NA	Water	300.0-1993 R2.1	
680-230721-2	WAN-WGWA-2	Total/NA	Water	300.0-1993 R2.1	
680-230721-3	WAN-WGWA-3	Total/NA	Water	300.0-1993 R2.1	
680-230721-5	WAN-WGWA-5	Total/NA	Water	300.0-1993 R2.1	
680-230721-6	WAN-WGWA-6	Total/NA	Water	300.0-1993 R2.1	
680-230721-7	WAN-WGWA-7	Total/NA	Water	300.0-1993 R2.1	
680-230721-8	WAN-WGWA-18	Total/NA	Water	300.0-1993 R2.1	
MB 680-764277/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-764277/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-764277/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-230721-1 MS	WAN-WGWA-1	Total/NA	Water	300.0-1993 R2.1	
680-230721-1 MSD	WAN-WGWA-1	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 764278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-4	WAN-WGWA-4	Total/NA	Water	300.0-1993 R2.1	
680-230721-9	WAN-WGWC-15	Total/NA	Water	300.0-1993 R2.1	
680-230721-10	WAN-WGWC-16	Total/NA	Water	300.0-1993 R2.1	
680-230721-11	WAN-WGWC-25	Total/NA	Water	300.0-1993 R2.1	
680-230721-12	WAN-WGWC-22	Total/NA	Water	300.0-1993 R2.1	
680-230721-13	WAN-WGWC-24	Total/NA	Water	300.0-1993 R2.1	
680-230721-15	WAN-WGWC-23	Total/NA	Water	300.0-1993 R2.1	
680-230721-16	WAN-AP1-FD-01	Total/NA	Water	300.0-1993 R2.1	
680-230721-17	WAN-AP1-FB-07	Total/NA	Water	300.0-1993 R2.1	
680-230721-18	WAN-AP1-EB-01	Total/NA	Water	300.0-1993 R2.1	
MB 680-764278/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-764278/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-764278/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-230721-4 MS	WAN-WGWA-4	Total/NA	Water	300.0-1993 R2.1	
680-230721-4 MSD	WAN-WGWA-4	Total/NA	Water	300.0-1993 R2.1	
680-230722-G-6 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-230722-G-6 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 764279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-14	WAN-WGWC-9	Total/NA	Water	300.0-1993 R2.1	
MB 680-764279/63	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-764279/64	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-764279/65	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-230721-14 MS	WAN-WGWC-9	Total/NA	Water	300.0-1993 R2.1	
680-230721-14 MSD	WAN-WGWC-9	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 764052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-1	WAN-WGWA-1	Total Recoverable	Water	3005A	
680-230721-2	WAN-WGWA-2	Total Recoverable	Water	3005A	
680-230721-3	WAN-WGWA-3	Total Recoverable	Water	3005A	
680-230721-4	WAN-WGWA-4	Total Recoverable	Water	3005A	
680-230721-5	WAN-WGWA-5	Total Recoverable	Water	3005A	

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QC Association Summary

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

Job ID: 680-230721-1

Metals (Continued)

Prep Batch: 764052 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-6	WAN-WGWA-6	Total Recoverable	Water	3005A	
680-230721-7	WAN-WGWA-7	Total Recoverable	Water	3005A	
680-230721-8	WAN-WGWA-18	Total Recoverable	Water	3005A	
680-230721-9	WAN-WGWC-15	Total Recoverable	Water	3005A	
680-230721-10	WAN-WGWC-16	Total Recoverable	Water	3005A	
680-230721-11	WAN-WGWC-25	Total Recoverable	Water	3005A	
680-230721-12	WAN-WGWC-22	Total Recoverable	Water	3005A	
680-230721-13	WAN-WGWC-24	Total Recoverable	Water	3005A	
680-230721-14	WAN-WGWC-9	Total Recoverable	Water	3005A	
680-230721-15	WAN-WGWC-23	Total Recoverable	Water	3005A	
680-230721-16	WAN-AP1-FD-01	Total Recoverable	Water	3005A	
680-230721-17	WAN-AP1-FB-07	Total Recoverable	Water	3005A	
680-230721-18	WAN-AP1-EB-01	Total Recoverable	Water	3005A	
MB 680-764052/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-764052/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-230721-14 MS	WAN-WGWC-9	Total Recoverable	Water	3005A	
680-230721-14 MSD	WAN-WGWC-9	Total Recoverable	Water	3005A	

Analysis Batch: 764211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-1	WAN-WGWA-1	Total Recoverable	Water	6020B	764052
680-230721-2	WAN-WGWA-2	Total Recoverable	Water	6020B	764052
680-230721-3	WAN-WGWA-3	Total Recoverable	Water	6020B	764052
680-230721-4	WAN-WGWA-4	Total Recoverable	Water	6020B	764052
680-230721-5	WAN-WGWA-5	Total Recoverable	Water	6020B	764052
680-230721-6	WAN-WGWA-6	Total Recoverable	Water	6020B	764052
680-230721-7	WAN-WGWA-7	Total Recoverable	Water	6020B	764052
680-230721-8	WAN-WGWA-18	Total Recoverable	Water	6020B	764052
680-230721-9	WAN-WGWC-15	Total Recoverable	Water	6020B	764052
680-230721-10	WAN-WGWC-16	Total Recoverable	Water	6020B	764052
680-230721-11	WAN-WGWC-25	Total Recoverable	Water	6020B	764052
680-230721-12	WAN-WGWC-22	Total Recoverable	Water	6020B	764052
680-230721-13	WAN-WGWC-24	Total Recoverable	Water	6020B	764052
680-230721-14	WAN-WGWC-9	Total Recoverable	Water	6020B	764052
680-230721-15	WAN-WGWC-23	Total Recoverable	Water	6020B	764052
680-230721-16	WAN-AP1-FD-01	Total Recoverable	Water	6020B	764052
680-230721-17	WAN-AP1-FB-07	Total Recoverable	Water	6020B	764052
680-230721-18	WAN-AP1-EB-01	Total Recoverable	Water	6020B	764052
MB 680-764052/1-A	Method Blank	Total Recoverable	Water	6020B	764052
LCS 680-764052/2-A	Lab Control Sample	Total Recoverable	Water	6020B	764052
680-230721-14 MS	WAN-WGWC-9	Total Recoverable	Water	6020B	764052
680-230721-14 MSD	WAN-WGWC-9	Total Recoverable	Water	6020B	764052

Prep Batch: 764333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-1	WAN-WGWA-1	Total/NA	Water	7470A	
680-230721-2	WAN-WGWA-2	Total/NA	Water	7470A	
680-230721-3	WAN-WGWA-3	Total/NA	Water	7470A	
680-230721-4	WAN-WGWA-4	Total/NA	Water	7470A	
680-230721-5	WAN-WGWA-5	Total/NA	Water	7470A	
680-230721-6	WAN-WGWA-6	Total/NA	Water	7470A	

Eurofins Savannah

QC Association Summary

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

Job ID: 680-230721-1

Metals (Continued)

Prep Batch: 764333 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-7	WAN-WGWA-7	Total/NA	Water	7470A	
680-230721-10	WAN-WGWC-16	Total/NA	Water	7470A	
680-230721-11	WAN-WGWC-25	Total/NA	Water	7470A	
680-230721-12	WAN-WGWC-22	Total/NA	Water	7470A	
680-230721-13	WAN-WGWC-24	Total/NA	Water	7470A	
680-230721-14	WAN-WGWC-9	Total/NA	Water	7470A	
680-230721-15	WAN-WGWC-23	Total/NA	Water	7470A	
680-230721-16	WAN-AP1-FD-01	Total/NA	Water	7470A	
680-230721-17	WAN-AP1-FB-07	Total/NA	Water	7470A	
680-230721-18	WAN-AP1-EB-01	Total/NA	Water	7470A	
MB 680-764333/12-A	Method Blank	Total/NA	Water	7470A	
LCS 680-764333/13-A	Lab Control Sample	Total/NA	Water	7470A	
680-230721-1 MS	WAN-WGWA-1	Total/NA	Water	7470A	
680-230721-1 MSD	WAN-WGWA-1	Total/NA	Water	7470A	

Prep Batch: 764336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-8	WAN-WGWA-18	Total/NA	Water	7470A	
680-230721-9	WAN-WGWC-15	Total/NA	Water	7470A	
MB 680-764336/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-764336/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-230805-G-12-E MS	Matrix Spike	Total/NA	Water	7470A	
680-230805-G-12-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 764581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-1	WAN-WGWA-1	Total/NA	Water	7470A	764333
680-230721-2	WAN-WGWA-2	Total/NA	Water	7470A	764333
680-230721-3	WAN-WGWA-3	Total/NA	Water	7470A	764333
680-230721-4	WAN-WGWA-4	Total/NA	Water	7470A	764333
680-230721-5	WAN-WGWA-5	Total/NA	Water	7470A	764333
680-230721-6	WAN-WGWA-6	Total/NA	Water	7470A	764333
680-230721-7	WAN-WGWA-7	Total/NA	Water	7470A	764333
680-230721-8	WAN-WGWA-18	Total/NA	Water	7470A	764336
680-230721-9	WAN-WGWC-15	Total/NA	Water	7470A	764336
680-230721-10	WAN-WGWC-16	Total/NA	Water	7470A	764333
680-230721-11	WAN-WGWC-25	Total/NA	Water	7470A	764333
680-230721-12	WAN-WGWC-22	Total/NA	Water	7470A	764333
680-230721-13	WAN-WGWC-24	Total/NA	Water	7470A	764333
680-230721-14	WAN-WGWC-9	Total/NA	Water	7470A	764333
680-230721-15	WAN-WGWC-23	Total/NA	Water	7470A	764333
680-230721-16	WAN-AP1-FD-01	Total/NA	Water	7470A	764333
680-230721-17	WAN-AP1-FB-07	Total/NA	Water	7470A	764333
680-230721-18	WAN-AP1-EB-01	Total/NA	Water	7470A	764333
MB 680-764333/12-A	Method Blank	Total/NA	Water	7470A	764333
MB 680-764336/1-A	Method Blank	Total/NA	Water	7470A	764336
LCS 680-764333/13-A	Lab Control Sample	Total/NA	Water	7470A	764333
LCS 680-764336/2-A	Lab Control Sample	Total/NA	Water	7470A	764336
680-230721-1 MS	WAN-WGWA-1	Total/NA	Water	7470A	764333
680-230721-1 MSD	WAN-WGWA-1	Total/NA	Water	7470A	764333
680-230805-G-12-E MS	Matrix Spike	Total/NA	Water	7470A	764336

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QC Association Summary

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

Job ID: 680-230721-1

Metals (Continued)

Analysis Batch: 764581 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-G-12-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	764336

General Chemistry

Analysis Batch: 764112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-1	WAN-WGWA-1	Total/NA	Water	4500 S2 F-2011	
680-230721-2	WAN-WGWA-2	Total/NA	Water	4500 S2 F-2011	
680-230721-3	WAN-WGWA-3	Total/NA	Water	4500 S2 F-2011	
680-230721-5	WAN-WGWA-5	Total/NA	Water	4500 S2 F-2011	
680-230721-6	WAN-WGWA-6	Total/NA	Water	4500 S2 F-2011	
680-230721-7	WAN-WGWA-7	Total/NA	Water	4500 S2 F-2011	
MB 680-764112/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-764112/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-764112/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-230678-D-4 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
680-230678-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
680-230571-O-1 DU	Duplicate	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 764123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-1	WAN-WGWA-1	Total/NA	Water	2540C-2011	
680-230721-2	WAN-WGWA-2	Total/NA	Water	2540C-2011	
680-230721-3	WAN-WGWA-3	Total/NA	Water	2540C-2011	
680-230721-5	WAN-WGWA-5	Total/NA	Water	2540C-2011	
680-230721-6	WAN-WGWA-6	Total/NA	Water	2540C-2011	
680-230721-7	WAN-WGWA-7	Total/NA	Water	2540C-2011	
680-230721-8	WAN-WGWA-18	Total/NA	Water	2540C-2011	
MB 680-764123/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-764123/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-764123/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-230617-C-1 DU	Duplicate	Total/NA	Water	2540C-2011	
680-230640-AD-1 DU	Duplicate	Total/NA	Water	2540C-2011	

Analysis Batch: 764160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-8	WAN-WGWA-18	Total/NA	Water	4500 S2 F-2011	
MB 680-764160/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-764160/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-764160/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-230725-D-15 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
680-230725-D-15 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
680-230725-D-8 DU	Duplicate	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 764297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-4	WAN-WGWA-4	Total/NA	Water	4500 S2 F-2011	
680-230721-9	WAN-WGWC-15	Total/NA	Water	4500 S2 F-2011	
680-230721-10	WAN-WGWC-16	Total/NA	Water	4500 S2 F-2011	
680-230721-11	WAN-WGWC-25	Total/NA	Water	4500 S2 F-2011	
680-230721-12	WAN-WGWC-22	Total/NA	Water	4500 S2 F-2011	

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QC Association Summary

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

Job ID: 680-230721-1

General Chemistry (Continued)

Analysis Batch: 764297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-13	WAN-WGWC-24	Total/NA	Water	4500 S2 F-2011	
680-230721-14	WAN-WGWC-9	Total/NA	Water	4500 S2 F-2011	
680-230721-15	WAN-WGWC-23	Total/NA	Water	4500 S2 F-2011	
680-230721-16	WAN-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-230721-17	WAN-AP1-FB-07	Total/NA	Water	4500 S2 F-2011	
680-230721-18	WAN-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-764297/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-764297/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-764297/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
LLCS 680-764297/4	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
680-230721-9 MS	WAN-WGWC-15	Total/NA	Water	4500 S2 F-2011	
680-230721-9 MSD	WAN-WGWC-15	Total/NA	Water	4500 S2 F-2011	
680-230640-O-1 DU	Duplicate	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 764319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-4	WAN-WGWA-4	Total/NA	Water	2540C-2011	
680-230721-9	WAN-WGWC-15	Total/NA	Water	2540C-2011	
680-230721-10	WAN-WGWC-16	Total/NA	Water	2540C-2011	
680-230721-11	WAN-WGWC-25	Total/NA	Water	2540C-2011	
680-230721-12	WAN-WGWC-22	Total/NA	Water	2540C-2011	
680-230721-13	WAN-WGWC-24	Total/NA	Water	2540C-2011	
680-230721-14	WAN-WGWC-9	Total/NA	Water	2540C-2011	
680-230721-15	WAN-WGWC-23	Total/NA	Water	2540C-2011	
680-230721-16	WAN-AP1-FD-01	Total/NA	Water	2540C-2011	
680-230721-17	WAN-AP1-FB-07	Total/NA	Water	2540C-2011	
680-230721-18	WAN-AP1-EB-01	Total/NA	Water	2540C-2011	
MB 680-764319/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-764319/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-764319/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-230617-B-2 DU	Duplicate	Total/NA	Water	2540C-2011	
680-230730-X-1 DU	Duplicate	Total/NA	Water	2540C-2011	

Analysis Batch: 764461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-1	WAN-WGWA-1	Total/NA	Water	2320B-2011	
680-230721-2	WAN-WGWA-2	Total/NA	Water	2320B-2011	
680-230721-3	WAN-WGWA-3	Total/NA	Water	2320B-2011	
680-230721-5	WAN-WGWA-5	Total/NA	Water	2320B-2011	
680-230721-9	WAN-WGWC-15	Total/NA	Water	2320B-2011	
680-230721-10	WAN-WGWC-16	Total/NA	Water	2320B-2011	
680-230721-11	WAN-WGWC-25	Total/NA	Water	2320B-2011	
680-230721-12	WAN-WGWC-22	Total/NA	Water	2320B-2011	
680-230721-15	WAN-WGWC-23	Total/NA	Water	2320B-2011	
680-230721-17	WAN-AP1-FB-07	Total/NA	Water	2320B-2011	
680-230721-18	WAN-AP1-EB-01	Total/NA	Water	2320B-2011	
MB 680-764461/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-764461/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-764461/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-230703-D-6 DU	Duplicate	Total/NA	Water	2320B-2011	
680-230705-C-1 DU	Duplicate	Total/NA	Water	2320B-2011	

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QC Association Summary

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

Job ID: 680-230721-1

General Chemistry

Analysis Batch: 764465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-4	WAN-WGWA-4	Total/NA	Water	2320B-2011	
680-230721-6	WAN-WGWA-6	Total/NA	Water	2320B-2011	
680-230721-7	WAN-WGWA-7	Total/NA	Water	2320B-2011	
680-230721-8	WAN-WGWA-18	Total/NA	Water	2320B-2011	
680-230721-13	WAN-WGWC-24	Total/NA	Water	2320B-2011	
680-230721-14	WAN-WGWC-9	Total/NA	Water	2320B-2011	
680-230721-16	WAN-AP1-FD-01	Total/NA	Water	2320B-2011	
MB 680-764465/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-764465/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-764465/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-230721-13 DU	WAN-WGWC-24	Total/NA	Water	2320B-2011	

Field Service / Mobile Lab

Analysis Batch: 764382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-1	WAN-WGWA-1	Total/NA	Water	Field Sampling	
680-230721-2	WAN-WGWA-2	Total/NA	Water	Field Sampling	
680-230721-3	WAN-WGWA-3	Total/NA	Water	Field Sampling	
680-230721-4	WAN-WGWA-4	Total/NA	Water	Field Sampling	
680-230721-5	WAN-WGWA-5	Total/NA	Water	Field Sampling	
680-230721-6	WAN-WGWA-6	Total/NA	Water	Field Sampling	
680-230721-7	WAN-WGWA-7	Total/NA	Water	Field Sampling	
680-230721-8	WAN-WGWA-18	Total/NA	Water	Field Sampling	
680-230721-9	WAN-WGWC-15	Total/NA	Water	Field Sampling	
680-230721-10	WAN-WGWC-16	Total/NA	Water	Field Sampling	
680-230721-11	WAN-WGWC-25	Total/NA	Water	Field Sampling	
680-230721-12	WAN-WGWC-22	Total/NA	Water	Field Sampling	
680-230721-13	WAN-WGWC-24	Total/NA	Water	Field Sampling	
680-230721-14	WAN-WGWC-9	Total/NA	Water	Field Sampling	
680-230721-15	WAN-WGWC-23	Total/NA	Water	Field Sampling	

Lab Chronicle

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWA-1

Lab Sample ID: 680-230721-1

Date Collected: 02/14/23 10:55

Matrix: Water

Date Received: 02/17/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764277	02/21/23 11:26	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 21:04	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:49	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 13:37	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764461	02/21/23 20:03	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	764123	02/20/23 12:27	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	300 mL	300 mL	764112	02/20/23 11:44	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/14/23 10:55	P1C	EET SAV

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-230721-2

Date Collected: 02/14/23 12:10

Matrix: Water

Date Received: 02/17/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764277	02/21/23 12:05	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 21:49	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:50	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 15:00	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764461	02/21/23 18:44	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	764123	02/20/23 12:27	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	310 mL	310 mL	764112	02/20/23 11:44	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/14/23 12:10	P1C	EET SAV

Lab Chronicle

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWA-3

Lab Sample ID: 680-230721-3

Date Collected: 02/14/23 17:10

Matrix: Water

Date Received: 02/17/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764277	02/21/23 12:19	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 21:53	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:49	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		0			764581	02/22/23 14:22	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764461	02/21/23 20:14	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	764123	02/20/23 12:27	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	310 mL	310 mL	764112	02/20/23 11:44	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/14/23 17:10	P1C	EET SAV

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-230721-4

Date Collected: 02/15/23 10:05

Matrix: Water

Date Received: 02/17/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764278	02/21/23 18:00	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 21:41	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:49	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 14:57	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764465	02/22/23 00:29	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	764319	02/21/23 12:39	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	310 mL	310 mL	764297	02/21/23 11:30	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/15/23 10:05	P1C	EET SAV

Eurofins Savannah

Lab Chronicle

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWA-5
Date Collected: 02/14/23 14:25
Date Received: 02/17/23 06:30

Lab Sample ID: 680-230721-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764277	02/21/23 12:32	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 21:08	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:49	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 14:29	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764461	02/21/23 18:34	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	764123	02/20/23 12:27	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	310 mL	310 mL	764112	02/20/23 11:44	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/14/23 14:25	P1C	EET SAV

Client Sample ID: WAN-WGWA-6
Date Collected: 02/14/23 15:53
Date Received: 02/17/23 06:30

Lab Sample ID: 680-230721-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764277	02/21/23 12:45	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 21:37	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:49	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 14:50	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764465	02/22/23 00:39	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	764123	02/20/23 12:27	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	310 mL	310 mL	764112	02/20/23 11:44	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/14/23 15:53	P1C	EET SAV

Lab Chronicle

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-230721-7

Date Collected: 02/14/23 15:40

Matrix: Water

Date Received: 02/17/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764277	02/21/23 12:58	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 21:00	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:49	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 14:15	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764465	02/22/23 00:59	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	764123	02/20/23 12:27	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	310 mL	310 mL	764112	02/20/23 11:44	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/14/23 15:40	P1C	EET SAV

Client Sample ID: WAN-WGWA-18

Lab Sample ID: 680-230721-8

Date Collected: 02/14/23 14:20

Matrix: Water

Date Received: 02/17/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764277	02/21/23 13:11	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 22:10	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764336	02/21/23 13:57	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 12:59	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764465	02/22/23 00:49	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	764123	02/20/23 12:27	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	310 mL	310 mL	764160	02/20/23 14:36	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/14/23 14:20	P1C	EET SAV

Lab Chronicle

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-230721-9

Date Collected: 02/15/23 11:15

Matrix: Water

Date Received: 02/17/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764278	02/21/23 18:40	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 21:57	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764336	02/21/23 13:57	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 12:35	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764461	02/21/23 20:24	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	764319	02/21/23 12:39	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	300 mL	300 mL	764297	02/21/23 11:30	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/15/23 11:15	P1C	EET SAV

Client Sample ID: WAN-WGWC-16

Lab Sample ID: 680-230721-10

Date Collected: 02/15/23 12:20

Matrix: Water

Date Received: 02/17/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764278	02/21/23 18:53	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 21:29	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:49	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 14:32	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764461	02/21/23 20:34	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	50 mL	200 mL	764319	02/21/23 12:39	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	300 mL	300 mL	764297	02/21/23 11:30	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/15/23 12:20	P1C	EET SAV

Lab Chronicle

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWC-25

Lab Sample ID: 680-230721-11

Date Collected: 02/15/23 15:00

Matrix: Water

Date Received: 02/17/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764278	02/21/23 19:06	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 21:45	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:49	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 14:53	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764461	02/21/23 20:41	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	50 mL	200 mL	764319	02/21/23 12:39	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	300 mL	300 mL	764297	02/21/23 11:30	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/15/23 15:00	P1C	EET SAV

Client Sample ID: WAN-WGWC-22

Lab Sample ID: 680-230721-12

Date Collected: 02/15/23 14:40

Matrix: Water

Date Received: 02/17/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764278	02/21/23 19:19	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 22:14	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:50	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 15:10	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764461	02/21/23 20:53	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	50 mL	200 mL	764319	02/21/23 12:39	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	310 mL	310 mL	764297	02/21/23 11:30	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/15/23 14:40	P1C	EET SAV

Lab Chronicle

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWC-24

Lab Sample ID: 680-230721-13

Date Collected: 02/15/23 13:20

Matrix: Water

Date Received: 02/17/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764278	02/21/23 19:33	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 20:52	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:49	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 14:08	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764465	02/22/23 01:36	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	50 mL	200 mL	764319	02/21/23 12:39	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	300 mL	300 mL	764297	02/21/23 11:30	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/15/23 13:20	P1C	EET SAV

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-230721-14

Date Collected: 02/15/23 16:15

Matrix: Water

Date Received: 02/17/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764279	02/22/23 00:35	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 20:40	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:49	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 14:12	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764465	02/22/23 01:52	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	764319	02/21/23 12:39	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	300 mL	300 mL	764297	02/21/23 11:30	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/15/23 16:15	P1C	EET SAV

Lab Chronicle

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

Job ID: 680-230721-1

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-230721-15

Date Collected: 02/15/23 16:15

Matrix: Water

Date Received: 02/17/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764278	02/21/23 22:50	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 20:56	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:49	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 14:19	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764461	02/21/23 21:02	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	764319	02/21/23 12:39	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	300 mL	300 mL	764297	02/21/23 11:30	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/15/23 16:15	P1C	EET SAV

Client Sample ID: WAN-AP1-FD-01

Lab Sample ID: 680-230721-16

Date Collected: 02/15/23 00:00

Matrix: Water

Date Received: 02/17/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764278	02/21/23 23:03	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764211	02/20/23 21:21	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:49	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 14:36	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764465	02/22/23 01:07	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	50 mL	200 mL	764319	02/21/23 12:39	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	300 mL	300 mL	764297	02/21/23 11:30	JAS	EET SAV

Client Sample ID: WAN-AP1-FB-07

Lab Sample ID: 680-230721-17

Date Collected: 02/15/23 13:15

Matrix: Water

Date Received: 02/17/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764278	02/21/23 23:16	UI	EET SAV

Eurofins Savannah

Lab Chronicle

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

Job ID: 680-230721-1

Client Sample ID: WAN-AP1-FB-07
Date Collected: 02/15/23 13:15
Date Received: 02/17/23 06:30

Lab Sample ID: 680-230721-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764211	02/20/23 21:25	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:49	BCB	EET SAV
Total/NA	Analysis	7470A		1			764581	02/22/23 14:26	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2320B-2011		1			764461	02/21/23 21:12	PG	EET SAV
Instrument ID: MANTECH 2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	764319	02/21/23 12:39	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	764297	02/21/23 11:30	JAS	EET SAV
Instrument ID: NoEquip										

Client Sample ID: WAN-AP1-EB-01
Date Collected: 02/15/23 16:30
Date Received: 02/17/23 06:30

Lab Sample ID: 680-230721-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	764278	02/21/23 23:29	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	764052	02/20/23 09:18	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764211	02/20/23 21:33	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	764333	02/21/23 13:49	BCB	EET SAV
Total/NA	Analysis	7470A		1			764581	02/22/23 14:46	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2320B-2011		1			764461	02/21/23 21:22	PG	EET SAV
Instrument ID: MANTECH 2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	764319	02/21/23 12:39	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	764297	02/21/23 11:30	JAS	EET SAV
Instrument ID: NoEquip										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

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

Job ID: 680-230721-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-23
Georgia	State	E87052	06-30-23

1

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Method Summary

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

Job ID: 680-230721-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
4500 S2 F-2011	Sulfide, Total	SM	EET SAV
Field Sampling	Field Sampling	EPA	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody Record

Client Information		Sampler: ACC A. Schmitt, D. Johnson		Lab PM: Fuller David		Carrier Tracking No(s):		COC No:	
Client Contact: SCS Contacts		Phone: 770 9594 5998		E-Mail: david.fuller@et.eurofins.com				Page: 1 of 2	
Company: GA Power		Address: 241 Ralph McGill Blvd SE		City: Atlanta		State, Zip: GA, 30308		Job #:	
Project Name: Plant Wansley Ash Pond		Site:		Lab Project #: 68027766		PO #:		Due Date Requested	
SCS Contacts / Geosyntec Contacts		Project #:		SSOW#:		TAT Requested (days): Standard		Analysis Requested	
Sample Identification		Sample Date (mm/dd/yy)		Sample Time (hh:mm)		Sample Type (C=Comp, G=grab)		Matrix (W=ground water, R=runoff water, H=humidity)	
WAN-WGWA-1		02/14/23		1055		G		WG	
WAN-WGWA-2		02/14/23		1210		G		WG	
WAN-WGWA-3		02/14/23		1710		G		WG	
WAN-WGWA-4		02/15/23		1005		G		WG	
WAN-WGWA-5		02/14/23		1425		G		WG	
WAN-WGWA-6		02/14/23		1553		G		WG	
WAN-WGWA-7		02/14/23		1540		G		WG	
WAN-WGWA-18		02/14/23		1420		G		WG	
WAN-WGWC-15		02/15/23		1115		G		WG	
WAN-WGWC-16		02/15/23		1220		G		WG	
WAN-WGWC-25		02/15/23		1500		G		WG	
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)									
Empty Kit Relinquished by: _____ Date: _____ Time: _____									
Relinquished by: <i>Dave Johnson</i> Date/Time: 2/16/23 / 0747 Company: ACC									
Relinquished by: <i>[Signature]</i> Date/Time: 2/16/23 Company: Eurofins									
Relinquished by: <i>[Signature]</i> Date/Time: 02-17-23 Company: Eurofins									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Δ Custody Seal No: _____									
Cooler Temperature(s) °C and Other Remarks: 3.5-5.5-2.4-2.4-2.1-2.1 4.03-4.93 Ver: 01/16/2019									



5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

Client Information Client Contact: <i>A. Schmittler, ACC</i> SCS Contacts: <i>770 574 5998</i> Lab P.M.: <i>Fuller, David</i> E-Mail: <i>david.fuller@et.eurofins.com</i>		Carrier Tracking No(s): COC No: <i>2 of 2</i> Job #:	
Due Date Requested: TAT Requested (days): <i>Standard</i> Lab Project #: <i>68027766</i> PO #:		Analysis Requested Major Ions - Carbonate, Bicarbonate, Total Alkalinity Major Ions - Sulfide Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium Total Number of Containers: <i>8</i>	
Address: <i>241 Ralph McGill Blvd SE</i> City: <i>Atlanta</i> State, Zip: <i>GA, 30308</i> Phone: <i>404-506-7116(Tel)</i> Email:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSCA F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Project Name: <i>Plant Wansley Ash Pond</i> SCS Contacts / Geosyntec Contacts SOW#:		Task Code: <i>WAN-CR-ASSMT-2023S1</i> Special Instructions/Note: <i>Full APP III and APP IV</i>	
Sample Identification Sample Date (mm/dd/yy) Sample Time (hhmm) Sample Type (C=comp, G=grab) Mark (if compound, water, WQ=quality control) Preservation Code			
WAN- <i>WGWC-22</i> <i>02/15/23 1440</i> <i>G</i> <i>WG</i> <i>WG</i>			
WAN- <i>WGWC-24</i> <i>02/15/23 1320</i> <i>G</i> <i>WG</i> <i>WG</i>			
WAN- <i>WGWC-9</i> <i>02/15/23 1615</i> <i>G</i> <i>WG</i> <i>WG</i>			
WAN- <i>WGWC-23</i> <i>02/15/23 1615</i> <i>G</i> <i>WG</i> <i>WG</i>			
WAN-			
WAN-			
WAN-			
WAN-			
WAN- <i>API-FD-01</i> <i>02/15/23</i> <i>G</i> <i>WG</i> <i>NA</i>			
WAN- <i>API-FB-07</i> <i>02/15/23 1315</i> <i>G</i> <i>WQ</i> <i>NA</i>			
WAN- <i>API-EB-01</i> <i>02/15/23 1630</i> <i>G</i> <i>WQ</i> <i>NA</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)			
Relinquished by: <i>David Johnson</i> Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i> Received by: <i>[Signature]</i> Received by: <i>[Signature]</i>	
Date/Time: <i>2/16/23 07:47</i> Date/Time: <i>2/16/23 16:00</i> Date/Time:		Date/Time: <i>2/16/23 07:44</i> Date/Time: <i>0:30</i> Date/Time: <i>02-17-23</i>	
Company: <i>Acc</i> Company: <i>Eurof</i> Company:		Company: <i>Eurof</i> Company: Company:	
Custody Seal No: <i>55-35-04-20-2-1-2-1</i> Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: <i>55-35-04-20-2-1-2-1</i> Ver: <i>01/16/2019</i>	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-230721-1

Login Number: 230721

List Source: Eurofins Savannah

List Number: 1

Creator: Harley, Tynisha

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/29/2023 5:06:15 PM

JOB DESCRIPTION

Plant Wansley - Ash Pond

JOB NUMBER

680-230721-2

Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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

Authorization



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3/29/2023 5:06:15 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

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

Job ID: 680-230721-2

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

Sample Summary

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

Job ID: 680-230721-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-230721-1	WAN-WGWA-1	Water	02/14/23 10:55	02/17/23 06:30
680-230721-2	WAN-WGWA-2	Water	02/14/23 12:10	02/17/23 06:30
680-230721-3	WAN-WGWA-3	Water	02/14/23 17:10	02/17/23 06:30
680-230721-4	WAN-WGWA-4	Water	02/15/23 10:05	02/17/23 06:30
680-230721-5	WAN-WGWA-5	Water	02/14/23 14:25	02/17/23 06:30
680-230721-6	WAN-WGWA-6	Water	02/14/23 15:53	02/17/23 06:30
680-230721-7	WAN-WGWA-7	Water	02/14/23 15:40	02/17/23 06:30
680-230721-8	WAN-WGWA-18	Water	02/14/23 14:20	02/17/23 06:30
680-230721-9	WAN-WGWC-15	Water	02/15/23 11:15	02/17/23 06:30
680-230721-10	WAN-WGWC-16	Water	02/15/23 12:20	02/17/23 06:30
680-230721-11	WAN-WGWC-25	Water	02/15/23 15:00	02/17/23 06:30
680-230721-12	WAN-WGWC-22	Water	02/15/23 14:40	02/17/23 06:30
680-230721-13	WAN-WGWC-24	Water	02/15/23 13:20	02/17/23 06:30
680-230721-14	WAN-WGWC-9	Water	02/15/23 16:15	02/17/23 06:30
680-230721-15	WAN-WGWC-23	Water	02/15/23 16:15	02/17/23 06:30
680-230721-16	WAN-AP1-FD-01	Water	02/15/23 00:00	02/17/23 06:30
680-230721-17	WAN-AP1-FB-07	Water	02/15/23 13:15	02/17/23 06:30
680-230721-18	WAN-AP1-EB-01	Water	02/15/23 16:30	02/17/23 06:30



Case Narrative

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

Job ID: 680-230721-2

Job ID: 680-230721-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-230721-2

Receipt

The samples were received on 2/17/2023 6:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.1°C, 2.2°C, 3.5°C and 4.3°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 batch 601821 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. WAN-WGWA-7 (680-230721-7), WAN-WGWA-18 (680-230721-8), WAN-WGWC-15 (680-230721-9), WAN-WGWC-16 (680-230721-10), WAN-WGWC-25 (680-230721-11), WAN-WGWC-22 (680-230721-12), WAN-WGWC-24 (680-230721-13), WAN-WGWC-9 (680-230721-14), WAN-WGWC-23 (680-230721-15), WAN-AP1-FD-01 (680-230721-16), WAN-AP1-FB-07 (680-230721-17), WAN-AP1-EB-01 (680-230721-18), (LCS 160-601821/2-A), (MB 160-601821/1-A), (680-230903-A-1-A), (680-230903-A-1-B MS) and (680-230903-A-1-C MSD)

Method 9315_Ra226: Radium-226 batch 601410 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. WAN-WGWA-1 (680-230721-1), WAN-WGWA-2 (680-230721-2), WAN-WGWA-3 (680-230721-3), WAN-WGWA-4 (680-230721-4), WAN-WGWA-5 (680-230721-5), WAN-WGWA-6 (680-230721-6), (LCS 160-601410/2-A), (MB 160-601410/1-A), (680-230884-D-6-C), (680-230884-E-6-A MS) and (680-230884-D-6-D MSD)

Method 9320_Ra228: Radium-228 batch 601825 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. WAN-WGWA-7 (680-230721-7), WAN-WGWA-18 (680-230721-8), WAN-WGWC-15 (680-230721-9), WAN-WGWC-16 (680-230721-10), WAN-WGWC-25 (680-230721-11), WAN-WGWC-22 (680-230721-12), WAN-WGWC-24 (680-230721-13), WAN-WGWC-9 (680-230721-14), WAN-WGWC-23 (680-230721-15), WAN-AP1-FD-01 (680-230721-16), WAN-AP1-FB-07 (680-230721-17), WAN-AP1-EB-01 (680-230721-18), (LCS 160-601825/2-A), (MB 160-601825/1-A), (680-230903-A-1-D), (680-230903-A-1-E MS) and (680-230903-A-1-F MSD)

Method 9320_Ra228: Radium-228 prep batch 160-601415: 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. WAN-WGWA-1 (680-230721-1), WAN-WGWA-2 (680-230721-2), WAN-WGWA-3 (680-230721-3), WAN-WGWA-4 (680-230721-4), WAN-WGWA-5 (680-230721-5), WAN-WGWA-6 (680-230721-6), (LCS 160-601415/2-A), (MB 160-601415/1-A), (680-230884-D-6-E), (680-230884-E-6-B MS) and (680-230884-D-6-F MSD)

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

Rad

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

Client Sample Results

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

Job ID: 680-230721-2

Client Sample ID: WAN-WGWA-1

Lab Sample ID: 680-230721-1

Date Collected: 02/14/23 10:55

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0810	U	0.0629	0.0634	1.00	0.0910	pCi/L	02/23/23 10:44	03/17/23 07:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		30 - 110					02/23/23 10:44	03/17/23 07:36	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.746		0.335	0.341	1.00	0.437	pCi/L	02/23/23 11:08	03/02/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		30 - 110					02/23/23 11:08	03/02/23 12:05	1
Y Carrier	90.1		30 - 110					02/23/23 11:08	03/02/23 12:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.827		0.341	0.347	2.00	0.437	pCi/L		03/29/23 11:56	1

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-230721-2

Date Collected: 02/14/23 12:10

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0239	U	0.0621	0.0621	1.00	0.115	pCi/L	02/23/23 10:44	03/17/23 07:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		30 - 110					02/23/23 10:44	03/17/23 07:37	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.397	U	0.313	0.315	1.00	0.480	pCi/L	02/23/23 11:08	03/02/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		30 - 110					02/23/23 11:08	03/02/23 12:05	1
Y Carrier	91.2		30 - 110					02/23/23 11:08	03/02/23 12:05	1

Client Sample Results

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

Job ID: 680-230721-2

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-230721-2

Date Collected: 02/14/23 12:10

Matrix: Water

Date Received: 02/17/23 06:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.421	U	0.319	0.321	2.00	0.480	pCi/L		03/29/23 11:56	1

Client Sample ID: WAN-WGWA-3

Lab Sample ID: 680-230721-3

Date Collected: 02/14/23 17:10

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0668	U	0.0619	0.0622	1.00	0.0932	pCi/L	02/23/23 10:44	03/17/23 07:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.9		30 - 110					02/23/23 10:44	03/17/23 07:37	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.538		0.335	0.338	1.00	0.479	pCi/L	02/23/23 11:08	03/02/23 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.9		30 - 110					02/23/23 11:08	03/02/23 12:06	1
Y Carrier	89.3		30 - 110					02/23/23 11:08	03/02/23 12:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.605		0.341	0.344	2.00	0.479	pCi/L		03/29/23 11:56	1

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-230721-4

Date Collected: 02/15/23 10:05

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.670		0.148	0.160	1.00	0.111	pCi/L	02/23/23 10:44	03/17/23 07:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		30 - 110					02/23/23 10:44	03/17/23 07:37	1

Client Sample Results

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

Job ID: 680-230721-2

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-230721-4

Date Collected: 02/15/23 10:05

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.920		0.404	0.413	1.00	0.537	pCi/L	02/23/23 11:08	03/02/23 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		30 - 110					02/23/23 11:08	03/02/23 12:08	1
Y Carrier	91.6		30 - 110					02/23/23 11:08	03/02/23 12:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.59		0.430	0.443	2.00	0.537	pCi/L		03/29/23 11:56	1

Client Sample ID: WAN-WGWA-5

Lab Sample ID: 680-230721-5

Date Collected: 02/14/23 14:25

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0511	U	0.0750	0.0751	1.00	0.128	pCi/L	02/23/23 10:44	03/17/23 07:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		30 - 110					02/23/23 10:44	03/17/23 07:37	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.690		0.386	0.392	1.00	0.562	pCi/L	02/23/23 11:08	03/02/23 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		30 - 110					02/23/23 11:08	03/02/23 12:07	1
Y Carrier	93.1		30 - 110					02/23/23 11:08	03/02/23 12:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.741		0.393	0.399	2.00	0.562	pCi/L		03/29/23 11:56	1

Client Sample Results

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

Job ID: 680-230721-2

Client Sample ID: WAN-WGWA-6

Lab Sample ID: 680-230721-6

Date Collected: 02/14/23 15:53

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.36		0.288	0.418	1.00	0.101	pCi/L	02/23/23 10:44	03/17/23 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		30 - 110					02/23/23 10:44	03/17/23 07:41	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.18		0.649	0.805	1.00	0.397	pCi/L	02/23/23 11:08	03/02/23 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		30 - 110					02/23/23 11:08	03/02/23 12:08	1
Y Carrier	95.7		30 - 110					02/23/23 11:08	03/02/23 12:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	8.54		0.710	0.907	2.00	0.397	pCi/L		03/29/23 11:56	1

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-230721-7

Date Collected: 02/14/23 15:40

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0119	U	0.0431	0.0431	1.00	0.0836	pCi/L	02/28/23 08:24	03/28/23 15:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		30 - 110					02/28/23 08:24	03/28/23 15:49	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0342	U	0.281	0.281	1.00	0.534	pCi/L	02/28/23 08:47	03/08/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		30 - 110					02/28/23 08:47	03/08/23 12:04	1
Y Carrier	86.7		30 - 110					02/28/23 08:47	03/08/23 12:04	1

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Client Sample Results

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

Job ID: 680-230721-2

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-230721-7

Date Collected: 02/14/23 15:40

Matrix: Water

Date Received: 02/17/23 06:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0224	U	0.284	0.284	2.00	0.534	pCi/L		03/29/23 11:56	1

Client Sample ID: WAN-WGWA-18

Lab Sample ID: 680-230721-8

Date Collected: 02/14/23 14:20

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.127		0.0664	0.0674	1.00	0.0780	pCi/L	02/28/23 08:24	03/28/23 15:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		30 - 110					02/28/23 08:24	03/28/23 15:49	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.626		0.323	0.328	1.00	0.442	pCi/L	02/28/23 08:47	03/08/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		30 - 110					02/28/23 08:47	03/08/23 12:04	1
Y Carrier	86.0		30 - 110					02/28/23 08:47	03/08/23 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.753		0.330	0.335	2.00	0.442	pCi/L		03/29/23 11:56	1

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-230721-9

Date Collected: 02/15/23 11:15

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0698	U	0.0581	0.0585	1.00	0.0840	pCi/L	02/28/23 08:24	03/28/23 15:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					02/28/23 08:24	03/28/23 15:50	1

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Client Sample Results

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

Job ID: 680-230721-2

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-230721-9

Date Collected: 02/15/23 11:15

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0180	U	0.266	0.266	1.00	0.500	pCi/L	02/28/23 08:47	03/08/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					02/28/23 08:47	03/08/23 12:04	1
Y Carrier	85.2		30 - 110					02/28/23 08:47	03/08/23 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0878	U	0.272	0.272	2.00	0.500	pCi/L		03/29/23 11:56	1

Client Sample ID: WAN-WGWC-16

Lab Sample ID: 680-230721-10

Date Collected: 02/15/23 12:20

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.119		0.0711	0.0719	1.00	0.0937	pCi/L	02/28/23 08:24	03/28/23 15:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		30 - 110					02/28/23 08:24	03/28/23 15:50	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.615		0.371	0.375	1.00	0.545	pCi/L	02/28/23 08:47	03/08/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		30 - 110					02/28/23 08:47	03/08/23 12:04	1
Y Carrier	86.0		30 - 110					02/28/23 08:47	03/08/23 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.734		0.378	0.382	2.00	0.545	pCi/L		03/29/23 11:56	1

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Client Sample Results

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

Job ID: 680-230721-2

Client Sample ID: WAN-WGWC-25

Lab Sample ID: 680-230721-11

Date Collected: 02/15/23 15:00

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.173		0.0737	0.0753	1.00	0.0760	pCi/L	02/28/23 08:24	03/28/23 15:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		30 - 110					02/28/23 08:24	03/28/23 15:50	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.700		0.341	0.347	1.00	0.459	pCi/L	02/28/23 08:47	03/08/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		30 - 110					02/28/23 08:47	03/08/23 12:05	1
Y Carrier	82.6		30 - 110					02/28/23 08:47	03/08/23 12:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.873		0.349	0.355	2.00	0.459	pCi/L		03/29/23 11:56	1

Client Sample ID: WAN-WGWC-22

Lab Sample ID: 680-230721-12

Date Collected: 02/15/23 14:40

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.42		0.256	0.336	1.00	0.0895	pCi/L	02/28/23 08:24	03/28/23 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		30 - 110					02/28/23 08:24	03/28/23 15:55	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.56		0.631	0.711	1.00	0.512	pCi/L	02/28/23 08:47	03/08/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		30 - 110					02/28/23 08:47	03/08/23 12:05	1
Y Carrier	83.0		30 - 110					02/28/23 08:47	03/08/23 12:05	1

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Client Sample Results

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

Job ID: 680-230721-2

Client Sample ID: WAN-WGWC-22

Lab Sample ID: 680-230721-12

Date Collected: 02/15/23 14:40

Matrix: Water

Date Received: 02/17/23 06:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	5.98		0.681	0.786	2.00	0.512	pCi/L		03/29/23 11:56	1

Client Sample ID: WAN-WGWC-24

Lab Sample ID: 680-230721-13

Date Collected: 02/15/23 13:20

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.164		0.0883	0.0895	1.00	0.114	pCi/L	02/28/23 08:24	03/28/23 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.6		30 - 110					02/28/23 08:24	03/28/23 15:55	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.811		0.384	0.392	1.00	0.504	pCi/L	02/28/23 08:47	03/08/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.6		30 - 110					02/28/23 08:47	03/08/23 12:05	1
Y Carrier	83.0		30 - 110					02/28/23 08:47	03/08/23 12:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.974		0.394	0.402	2.00	0.504	pCi/L		03/29/23 11:56	1

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-230721-14

Date Collected: 02/15/23 16:15

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0261	U	0.0652	0.0653	1.00	0.118	pCi/L	02/28/23 08:24	03/28/23 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					02/28/23 08:24	03/28/23 15:55	1

Client Sample Results

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

Job ID: 680-230721-2

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-230721-14

Date Collected: 02/15/23 16:15

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0152	U	0.258	0.258	1.00	0.493	pCi/L	02/28/23 08:47	03/08/23 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					02/28/23 08:47	03/08/23 11:52	1
Y Carrier	84.1		30 - 110					02/28/23 08:47	03/08/23 11:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0109	U	0.266	0.266	2.00	0.493	pCi/L		03/29/23 11:56	1

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-230721-15

Date Collected: 02/15/23 16:15

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.174		0.0867	0.0881	1.00	0.106	pCi/L	02/28/23 08:24	03/28/23 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		30 - 110					02/28/23 08:24	03/28/23 15:55	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.811		0.420	0.426	1.00	0.587	pCi/L	02/28/23 08:47	03/08/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		30 - 110					02/28/23 08:47	03/08/23 12:05	1
Y Carrier	82.6		30 - 110					02/28/23 08:47	03/08/23 12:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.985		0.429	0.435	2.00	0.587	pCi/L		03/29/23 11:56	1

Client Sample Results

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

Job ID: 680-230721-2

Client Sample ID: WAN-AP1-FD-01

Lab Sample ID: 680-230721-16

Date Collected: 02/15/23 00:00

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0806	U	0.0713	0.0717	1.00	0.109	pCi/L	02/28/23 08:24	03/28/23 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					02/28/23 08:24	03/28/23 15:55	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.462	U	0.339	0.342	1.00	0.510	pCi/L	02/28/23 08:47	03/08/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					02/28/23 08:47	03/08/23 12:05	1
Y Carrier	77.8		30 - 110					02/28/23 08:47	03/08/23 12:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.543		0.346	0.349	2.00	0.510	pCi/L		03/29/23 11:56	1

Client Sample ID: WAN-AP1-FB-07

Lab Sample ID: 680-230721-17

Date Collected: 02/15/23 13:15

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0519	U	0.0451	0.0454	1.00	0.118	pCi/L	02/28/23 08:24	03/28/23 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		30 - 110					02/28/23 08:24	03/28/23 15:55	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.103	U	0.318	0.318	1.00	0.570	pCi/L	02/28/23 08:47	03/08/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		30 - 110					02/28/23 08:47	03/08/23 12:05	1
Y Carrier	82.2		30 - 110					02/28/23 08:47	03/08/23 12:05	1

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Client Sample Results

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

Job ID: 680-230721-2

Client Sample ID: WAN-AP1-FB-07

Lab Sample ID: 680-230721-17

Date Collected: 02/15/23 13:15

Matrix: Water

Date Received: 02/17/23 06:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0507	U	0.321	0.321	2.00	0.570	pCi/L		03/29/23 11:56	1

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-230721-18

Date Collected: 02/15/23 16:30

Matrix: Water

Date Received: 02/17/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00410	U	0.0474	0.0474	1.00	0.0965	pCi/L	02/28/23 08:24	03/28/23 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		30 - 110					02/28/23 08:24	03/28/23 15:55	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.343	U	0.356	0.358	1.00	0.576	pCi/L	02/28/23 08:47	03/08/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		30 - 110					02/28/23 08:47	03/08/23 12:05	1
Y Carrier	83.4		30 - 110					02/28/23 08:47	03/08/23 12:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.348	U	0.359	0.361	2.00	0.576	pCi/L		03/29/23 11:56	1

Tracer/Carrier Summary

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

Job ID: 680-230721-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
680-230721-1	WAN-WGWA-1	92.9	
680-230721-2	WAN-WGWA-2	86.2	
680-230721-3	WAN-WGWA-3	79.9	
680-230721-4	WAN-WGWA-4	82.8	
680-230721-5	WAN-WGWA-5	89.8	
680-230721-6	WAN-WGWA-6	96.0	
680-230721-7	WAN-WGWA-7	92.9	
680-230721-8	WAN-WGWA-18	97.2	
680-230721-9	WAN-WGWC-15	87.6	
680-230721-10	WAN-WGWC-16	94.6	
680-230721-11	WAN-WGWC-25	95.8	
680-230721-12	WAN-WGWC-22	88.7	
680-230721-13	WAN-WGWC-24	81.6	
680-230721-14	WAN-WGWC-9	89.3	
680-230721-15	WAN-WGWC-23	85.9	
680-230721-16	WAN-AP1-FD-01	89.5	
680-230721-17	WAN-AP1-FB-07	84.2	
680-230721-18	WAN-AP1-EB-01	85.0	
680-230903-A-1-B MS	Matrix Spike	94.6	
680-230903-A-1-C MSD	Matrix Spike Duplicate	92.4	
LCS 160-601410/2-A	Lab Control Sample	91.2	
LCS 160-601821/2-A	Lab Control Sample	93.5	
MB 160-601410/1-A	Method Blank	91.2	
MB 160-601821/1-A	Method Blank	90.7	

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Dissolved

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
680-230884-D-6-D MSD	Matrix Spike Duplicate	84.5	
680-230884-E-6-A MS	Matrix Spike	81.1	

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
680-230721-1	WAN-WGWA-1	92.9	90.1
680-230721-2	WAN-WGWA-2	86.2	91.2
680-230721-3	WAN-WGWA-3	79.9	89.3
680-230721-4	WAN-WGWA-4	82.8	91.6
680-230721-5	WAN-WGWA-5	89.8	93.1

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Tracer/Carrier Summary

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

Job ID: 680-230721-2

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
680-230721-6	WAN-WGWA-6	96.0	95.7
680-230721-7	WAN-WGWA-7	92.9	86.7
680-230721-8	WAN-WGWA-18	97.2	86.0
680-230721-9	WAN-WGWC-15	87.6	85.2
680-230721-10	WAN-WGWC-16	94.6	86.0
680-230721-11	WAN-WGWC-25	95.8	82.6
680-230721-12	WAN-WGWC-22	88.7	83.0
680-230721-13	WAN-WGWC-24	81.6	83.0
680-230721-14	WAN-WGWC-9	89.3	84.1
680-230721-15	WAN-WGWC-23	85.9	82.6
680-230721-16	WAN-AP1-FD-01	89.5	77.8
680-230721-17	WAN-AP1-FB-07	84.2	82.2
680-230721-18	WAN-AP1-EB-01	85.0	83.4
680-230903-A-1-E MS	Matrix Spike	94.6	87.1
680-230903-A-1-F MSD	Matrix Spike Duplicate	92.4	82.2
LCS 160-601415/2-A	Lab Control Sample	91.2	91.6
LCS 160-601825/2-A	Lab Control Sample	93.5	81.5
MB 160-601415/1-A	Method Blank	91.2	92.3
MB 160-601825/1-A	Method Blank	90.7	83.0

Tracer/Carrier Legend

Ba = Ba Carrier
 Y = Y Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Dissolved

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
680-230884-D-6-F MSD	Matrix Spike Duplicate	84.5	90.5
680-230884-E-6-B MS	Matrix Spike	81.1	88.2

Tracer/Carrier Legend

Ba = Ba Carrier
 Y = Y Carrier

QC Sample Results

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

Job ID: 680-230721-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-601410/1-A
Matrix: Water
Analysis Batch: 604013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601410

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01952	U	0.0313	0.0314	1.00	0.0830	pCi/L	02/23/23 10:44	03/17/23 07:17	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	91.2		30 - 110					02/23/23 10:44	03/17/23 07:17	1

Lab Sample ID: LCS 160-601410/2-A
Matrix: Water
Analysis Batch: 604463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601410

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-226	11.3	12.46		1.25	1.00	0.101	pCi/L	110	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	91.2		30 - 110					02/23/23 10:44	03/17/23 07:17

Lab Sample ID: MB 160-601821/1-A
Matrix: Water
Analysis Batch: 605256

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601821

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02216	U	0.0434	0.0435	1.00	0.0788	pCi/L	02/28/23 08:24	03/28/23 15:47	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	90.7		30 - 110					02/28/23 08:24	03/28/23 15:47	1

Lab Sample ID: LCS 160-601821/2-A
Matrix: Water
Analysis Batch: 605256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601821

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-226	11.3	11.64		1.18	1.00	0.121	pCi/L	103	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	93.5		30 - 110					02/28/23 08:24	03/28/23 15:47

Lab Sample ID: 680-230903-A-1-B MS
Matrix: Water
Analysis Batch: 605258

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 601821

Analyte	Sample Result	Sample Qual	Spike Added	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.552		11.3	11.16		1.13	1.00	0.0836	pCi/L	93	60 - 140

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QC Sample Results

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

Job ID: 680-230721-2

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

Lab Sample ID: 680-230903-A-1-B MS
Matrix: Water
Analysis Batch: 605258

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 601821

MS MS			
Carrier	%Yield	Qualifier	Limits
Ba Carrier	94.6		30 - 110

Lab Sample ID: 680-230903-A-1-C MSD
Matrix: Water
Analysis Batch: 605258

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 601821

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER	Limit
											Limits	RER		
Radium-226	0.552		11.4	12.51		1.27	1.00	0.119	pCi/L	105	60 - 140	0.56	1	
MSD MSD														
Carrier	%Yield	Qualifier	Limits											
Ba Carrier	92.4		30 - 110											

Lab Sample ID: 680-230884-D-6-D MSD
Matrix: Water
Analysis Batch: 604030

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 601410

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER	Limit
											Limits	RER		
Radium-226	0.0445	U	11.4	12.21		1.25	1.00	0.0962	pCi/L	107	60 - 140	0.35	1	
MSD MSD														
Carrier	%Yield	Qualifier	Limits											
Ba Carrier	84.5		30 - 110											

Lab Sample ID: 680-230884-E-6-A MS
Matrix: Water
Analysis Batch: 604030

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 601410

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER	Limit
											Limits	RER		
Radium-226	0.0445	U	11.2	11.36		1.17	1.00	0.0971	pCi/L	101	60 - 140			
MS MS														
Carrier	%Yield	Qualifier	Limits											
Ba Carrier	81.1		30 - 110											

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-601415/1-A
Matrix: Water
Analysis Batch: 602181

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601415

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac			
											Radium-228	0.7066	
MB MB													
Carrier	%Yield	Qualifier	Limits								Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		30 - 110								02/23/23 11:08	03/02/23 11:56	1

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QC Sample Results

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

Job ID: 680-230721-2

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

Lab Sample ID: MB 160-601415/1-A
Matrix: Water
Analysis Batch: 602181

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601415

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	92.3		30 - 110	02/23/23 11:08	03/02/23 11:56	1

Lab Sample ID: LCS 160-601415/2-A
Matrix: Water
Analysis Batch: 602181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601415

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.15	8.705		1.18	1.00	0.437	pCi/L	107	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	91.2		30 - 110
Y Carrier	91.6		30 - 110

Lab Sample ID: MB 160-601825/1-A
Matrix: Water
Analysis Batch: 602825

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601825

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.006430	U	0.298	0.298	1.00	0.557	pCi/L	02/28/23 08:47	03/08/23 11:55	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110	02/28/23 08:47	03/08/23 11:55	1
Y Carrier	83.0		30 - 110	02/28/23 08:47	03/08/23 11:55	1

Lab Sample ID: LCS 160-601825/2-A
Matrix: Water
Analysis Batch: 602825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601825

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.13	8.894		1.22	1.00	0.433	pCi/L	109	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.5		30 - 110
Y Carrier	81.5		30 - 110

Lab Sample ID: 680-230903-A-1-E MS
Matrix: Water
Analysis Batch: 602860

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 601825

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	3.33		8.14	11.67		1.49	1.00	0.571	pCi/L	102	60 - 140

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QC Sample Results

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

Job ID: 680-230721-2

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

Lab Sample ID: 680-230903-A-1-E MS
Matrix: Water
Analysis Batch: 602860

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 601825

	<i>MS</i>	<i>MS</i>	
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>
Ba Carrier	94.6		30 - 110
Y Carrier	87.1		30 - 110

Lab Sample ID: 680-230903-A-1-F MSD
Matrix: Water
Analysis Batch: 602860

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 601825

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER	Limit
											Limits	RER		
Radium-228	3.33		8.15	14.42		1.76	1.00	0.482	pCi/L	136	60 - 140	0.85	1	

	<i>MSD</i>	<i>MSD</i>	
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>
Ba Carrier	92.4		30 - 110
Y Carrier	82.2		30 - 110

Lab Sample ID: 680-230884-D-6-F MSD
Matrix: Water
Analysis Batch: 602182

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 601415

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER	Limit
											Limits	RER		
Radium-228	0.201	U	8.18	9.301		1.27	1.00	0.512	pCi/L	111	60 - 140	0.07	1	

	<i>MSD</i>	<i>MSD</i>	
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>
Ba Carrier	84.5		30 - 110
Y Carrier	90.5		30 - 110

Lab Sample ID: 680-230884-E-6-B MS
Matrix: Water
Analysis Batch: 602182

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 601415

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER	Limit
											Limits	RER		
Radium-228	0.201	U	8.07	9.490		1.31	1.00	0.563	pCi/L	115	60 - 140			

	<i>MS</i>	<i>MS</i>	
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>
Ba Carrier	81.1		30 - 110
Y Carrier	88.2		30 - 110

QC Association Summary

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

Job ID: 680-230721-2

Rad

Prep Batch: 601410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-1	WAN-WGWA-1	Total/NA	Water	PrecSep-21	
680-230721-2	WAN-WGWA-2	Total/NA	Water	PrecSep-21	
680-230721-3	WAN-WGWA-3	Total/NA	Water	PrecSep-21	
680-230721-4	WAN-WGWA-4	Total/NA	Water	PrecSep-21	
680-230721-5	WAN-WGWA-5	Total/NA	Water	PrecSep-21	
680-230721-6	WAN-WGWA-6	Total/NA	Water	PrecSep-21	
MB 160-601410/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-601410/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
680-230884-D-6-D MSD	Matrix Spike Duplicate	Dissolved	Water	PrecSep-21	
680-230884-E-6-A MS	Matrix Spike	Dissolved	Water	PrecSep-21	

Prep Batch: 601415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-1	WAN-WGWA-1	Total/NA	Water	PrecSep_0	
680-230721-2	WAN-WGWA-2	Total/NA	Water	PrecSep_0	
680-230721-3	WAN-WGWA-3	Total/NA	Water	PrecSep_0	
680-230721-4	WAN-WGWA-4	Total/NA	Water	PrecSep_0	
680-230721-5	WAN-WGWA-5	Total/NA	Water	PrecSep_0	
680-230721-6	WAN-WGWA-6	Total/NA	Water	PrecSep_0	
MB 160-601415/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-601415/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
680-230884-D-6-F MSD	Matrix Spike Duplicate	Dissolved	Water	PrecSep_0	
680-230884-E-6-B MS	Matrix Spike	Dissolved	Water	PrecSep_0	

Prep Batch: 601821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-7	WAN-WGWA-7	Total/NA	Water	PrecSep-21	
680-230721-8	WAN-WGWA-18	Total/NA	Water	PrecSep-21	
680-230721-9	WAN-WGWC-15	Total/NA	Water	PrecSep-21	
680-230721-10	WAN-WGWC-16	Total/NA	Water	PrecSep-21	
680-230721-11	WAN-WGWC-25	Total/NA	Water	PrecSep-21	
680-230721-12	WAN-WGWC-22	Total/NA	Water	PrecSep-21	
680-230721-13	WAN-WGWC-24	Total/NA	Water	PrecSep-21	
680-230721-14	WAN-WGWC-9	Total/NA	Water	PrecSep-21	
680-230721-15	WAN-WGWC-23	Total/NA	Water	PrecSep-21	
680-230721-16	WAN-AP1-FD-01	Total/NA	Water	PrecSep-21	
680-230721-17	WAN-AP1-FB-07	Total/NA	Water	PrecSep-21	
680-230721-18	WAN-AP1-EB-01	Total/NA	Water	PrecSep-21	
MB 160-601821/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-601821/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
680-230903-A-1-B MS	Matrix Spike	Total/NA	Water	PrecSep-21	
680-230903-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 601825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-7	WAN-WGWA-7	Total/NA	Water	PrecSep_0	
680-230721-8	WAN-WGWA-18	Total/NA	Water	PrecSep_0	
680-230721-9	WAN-WGWC-15	Total/NA	Water	PrecSep_0	
680-230721-10	WAN-WGWC-16	Total/NA	Water	PrecSep_0	
680-230721-11	WAN-WGWC-25	Total/NA	Water	PrecSep_0	
680-230721-12	WAN-WGWC-22	Total/NA	Water	PrecSep_0	

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QC Association Summary

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

Job ID: 680-230721-2

Rad (Continued)

Prep Batch: 601825 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230721-13	WAN-WGWC-24	Total/NA	Water	PrecSep_0	
680-230721-14	WAN-WGWC-9	Total/NA	Water	PrecSep_0	
680-230721-15	WAN-WGWC-23	Total/NA	Water	PrecSep_0	
680-230721-16	WAN-AP1-FD-01	Total/NA	Water	PrecSep_0	
680-230721-17	WAN-AP1-FB-07	Total/NA	Water	PrecSep_0	
680-230721-18	WAN-AP1-EB-01	Total/NA	Water	PrecSep_0	
MB 160-601825/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-601825/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
680-230903-A-1-E MS	Matrix Spike	Total/NA	Water	PrecSep_0	
680-230903-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

Lab Chronicle

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

Job ID: 680-230721-2

Client Sample ID: WAN-WGWA-1

Lab Sample ID: 680-230721-1

Date Collected: 02/14/23 10:55

Matrix: Water

Date Received: 02/17/23 06:30

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			1005.20 mL	1.0 g	601410	02/23/23 10:44	DJP	EET SL
Total/NA	Analysis	9315		1			604030	03/17/23 07:36	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1005.20 mL	1.0 g	601415	02/23/23 11:08	DJP	EET SL
Total/NA	Analysis	9320		1			602182	03/02/23 12:05	EMH	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-230721-2

Date Collected: 02/14/23 12:10

Matrix: Water

Date Received: 02/17/23 06:30

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			1001.52 mL	1.0 g	601410	02/23/23 10:44	DJP	EET SL
Total/NA	Analysis	9315		1			604030	03/17/23 07:37	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1001.52 mL	1.0 g	601415	02/23/23 11:08	DJP	EET SL
Total/NA	Analysis	9320		1			602182	03/02/23 12:05	EMH	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-3

Lab Sample ID: 680-230721-3

Date Collected: 02/14/23 17:10

Matrix: Water

Date Received: 02/17/23 06:30

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			1000.83 mL	1.0 g	601410	02/23/23 10:44	DJP	EET SL
Total/NA	Analysis	9315		1			604030	03/17/23 07:37	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.83 mL	1.0 g	601415	02/23/23 11:08	DJP	EET SL
Total/NA	Analysis	9320		1			602182	03/02/23 12:06	EMH	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-230721-4

Date Collected: 02/15/23 10:05

Matrix: Water

Date Received: 02/17/23 06:30

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			1007.86 mL	1.0 g	601410	02/23/23 10:44	DJP	EET SL
Total/NA	Analysis	9315		1			604030	03/17/23 07:37	FLC	EET SL
Instrument ID: GFPCBLUE										

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Lab Chronicle

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

Job ID: 680-230721-2

Client Sample ID: WAN-WGWA-4
Date Collected: 02/15/23 10:05
Date Received: 02/17/23 06:30

Lab Sample ID: 680-230721-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1007.86 mL	1.0 g	601415	02/23/23 11:08	DJP	EET SL
Total/NA	Analysis	9320		1			602182	03/02/23 12:08	EMH	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-5
Date Collected: 02/14/23 14:25
Date Received: 02/17/23 06:30

Lab Sample ID: 680-230721-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1004.43 mL	1.0 g	601410	02/23/23 10:44	DJP	EET SL
Total/NA	Analysis	9315		1			604030	03/17/23 07:37	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1004.43 mL	1.0 g	601415	02/23/23 11:08	DJP	EET SL
Total/NA	Analysis	9320		1			602182	03/02/23 12:07	EMH	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-6
Date Collected: 02/14/23 15:53
Date Received: 02/17/23 06:30

Lab Sample ID: 680-230721-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1009.38 mL	1.0 g	601410	02/23/23 10:44	DJP	EET SL
Total/NA	Analysis	9315		1			603986	03/17/23 07:41	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1009.38 mL	1.0 g	601415	02/23/23 11:08	DJP	EET SL
Total/NA	Analysis	9320		1			602182	03/02/23 12:08	EMH	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-7
Date Collected: 02/14/23 15:40
Date Received: 02/17/23 06:30

Lab Sample ID: 680-230721-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			993.35 mL	1.0 g	601821	02/28/23 08:24	DJP	EET SL
Total/NA	Analysis	9315		1			605256	03/28/23 15:49	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			993.35 mL	1.0 g	601825	02/28/23 08:47	DJP	EET SL
Total/NA	Analysis	9320		1			602860	03/08/23 12:04	FLC	EET SL
Instrument ID: GFPCBLUE										

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Lab Chronicle

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

Job ID: 680-230721-2

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-230721-7

Date Collected: 02/14/23 15:40

Matrix: Water

Date Received: 02/17/23 06:30

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			605403	03/29/23 11:56	MLK	EET SL

Client Sample ID: WAN-WGWA-18

Lab Sample ID: 680-230721-8

Date Collected: 02/14/23 14:20

Matrix: Water

Date Received: 02/17/23 06:30

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			991.10 mL	1.0 g	601821	02/28/23 08:24	DJP	EET SL
Total/NA	Analysis	9315		1			605256	03/28/23 15:49	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			991.10 mL	1.0 g	601825	02/28/23 08:47	DJP	EET SL
Total/NA	Analysis	9320		1			602860	03/08/23 12:04	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-230721-9

Date Collected: 02/15/23 11:15

Matrix: Water

Date Received: 02/17/23 06:30

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			995.17 mL	1.0 g	601821	02/28/23 08:24	DJP	EET SL
Total/NA	Analysis	9315		1			605256	03/28/23 15:50	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			995.17 mL	1.0 g	601825	02/28/23 08:47	DJP	EET SL
Total/NA	Analysis	9320		1			602860	03/08/23 12:04	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-16

Lab Sample ID: 680-230721-10

Date Collected: 02/15/23 12:20

Matrix: Water

Date Received: 02/17/23 06:30

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			994.76 mL	1.0 g	601821	02/28/23 08:24	DJP	EET SL
Total/NA	Analysis	9315		1			605256	03/28/23 15:50	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			994.76 mL	1.0 g	601825	02/28/23 08:47	DJP	EET SL
Total/NA	Analysis	9320		1			602860	03/08/23 12:04	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 680-230721-2

Client Sample ID: WAN-WGWC-25

Lab Sample ID: 680-230721-11

Date Collected: 02/15/23 15:00

Matrix: Water

Date Received: 02/17/23 06:30

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			1009.36 mL	1.0 g	601821	02/28/23 08:24	DJP	EET SL
Total/NA	Analysis	9315		1			605256	03/28/23 15:50	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1009.36 mL	1.0 g	601825	02/28/23 08:47	DJP	EET SL
Total/NA	Analysis	9320		1			602860	03/08/23 12:05	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-22

Lab Sample ID: 680-230721-12

Date Collected: 02/15/23 14:40

Matrix: Water

Date Received: 02/17/23 06:30

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			998.66 mL	1.0 g	601821	02/28/23 08:24	DJP	EET SL
Total/NA	Analysis	9315		1			605258	03/28/23 15:55	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			998.66 mL	1.0 g	601825	02/28/23 08:47	DJP	EET SL
Total/NA	Analysis	9320		1			602860	03/08/23 12:05	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-24

Lab Sample ID: 680-230721-13

Date Collected: 02/15/23 13:20

Matrix: Water

Date Received: 02/17/23 06:30

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			1000.20 mL	1.0 g	601821	02/28/23 08:24	DJP	EET SL
Total/NA	Analysis	9315		1			605258	03/28/23 15:55	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.20 mL	1.0 g	601825	02/28/23 08:47	DJP	EET SL
Total/NA	Analysis	9320		1			602860	03/08/23 12:05	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-230721-14

Date Collected: 02/15/23 16:15

Matrix: Water

Date Received: 02/17/23 06:30

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			1003.40 mL	1.0 g	601821	02/28/23 08:24	DJP	EET SL
Total/NA	Analysis	9315		1			605258	03/28/23 15:55	FLC	EET SL
Instrument ID: GFPCBLUE										

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Lab Chronicle

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

Job ID: 680-230721-2

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-230721-14

Date Collected: 02/15/23 16:15

Matrix: Water

Date Received: 02/17/23 06:30

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			1003.40 mL	1.0 g	601825	02/28/23 08:47	DJP	EET SL
Total/NA	Analysis	9320		1			602861	03/08/23 11:52	FLC	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-230721-15

Date Collected: 02/15/23 16:15

Matrix: Water

Date Received: 02/17/23 06:30

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			991.24 mL	1.0 g	601821	02/28/23 08:24	DJP	EET SL
Total/NA	Analysis	9315		1			605258	03/28/23 15:55	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			991.24 mL	1.0 g	601825	02/28/23 08:47	DJP	EET SL
Total/NA	Analysis	9320		1			602860	03/08/23 12:05	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-FD-01

Lab Sample ID: 680-230721-16

Date Collected: 02/15/23 00:00

Matrix: Water

Date Received: 02/17/23 06:30

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			996.74 mL	1.0 g	601821	02/28/23 08:24	DJP	EET SL
Total/NA	Analysis	9315		1			605258	03/28/23 15:55	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			996.74 mL	1.0 g	601825	02/28/23 08:47	DJP	EET SL
Total/NA	Analysis	9320		1			602860	03/08/23 12:05	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-FB-07

Lab Sample ID: 680-230721-17

Date Collected: 02/15/23 13:15

Matrix: Water

Date Received: 02/17/23 06:30

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			1000.66 mL	1.0 g	601821	02/28/23 08:24	DJP	EET SL
Total/NA	Analysis	9315		1			605258	03/28/23 15:55	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.66 mL	1.0 g	601825	02/28/23 08:47	DJP	EET SL
Total/NA	Analysis	9320		1			602860	03/08/23 12:05	FLC	EET SL
Instrument ID: GFPCBLUE										

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Lab Chronicle

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

Job ID: 680-230721-2

Client Sample ID: WAN-AP1-FB-07
Date Collected: 02/15/23 13:15
Date Received: 02/17/23 06:30

Lab Sample ID: 680-230721-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL

Client Sample ID: WAN-AP1-EB-01
Date Collected: 02/15/23 16:30
Date Received: 02/17/23 06:30

Lab Sample ID: 680-230721-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			997.07 mL	1.0 g	601821	02/28/23 08:24	DJP	EET SL
Total/NA	Analysis	9315		1			605258	03/28/23 15:55	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			997.07 mL	1.0 g	601825	02/28/23 08:47	DJP	EET SL
Total/NA	Analysis	9320		1	1.0 mL	1.0 mL	602860	03/08/23 12:05	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605403	03/29/23 11:56	MLK	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

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



Accreditation/Certification Summary

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

Job ID: 680-230721-2

Laboratory: Eurofins St. Louis

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87689	06-30-23

1

2

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13

Method Summary

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

Job ID: 680-230721-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Chain of Custody Record

Client Information		Sampler: ACC A. Schmitt, D. Johnson		Lab PM: Fuller David		Carrier Tracking No(s):		COC No:	
Client Contact: SCS Contacts		Phone: 770 9594 5998		E-Mail: david.fuller@et.eurofins.com		Page: 1 of 2		Job #:	
Company: GA Power		Address: 241 Ralph McGill Blvd SE		City: Atlanta		State, Zip: GA, 30308		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Project Name: Plant Wansley Ash Pond		Site:		Due Date Requested: TAT Requested (days): Standard		Lab Project #: 68027766		Task Code: WAN-CCR-ASSMT-2023S1	
SCS Contacts / Geosyntec Contacts		Project #:		SSOW#:		Sample Date (mm/dd/yy)		Special Instructions/Note: Full APP III and APP IV	
Sample Identification		Sample Type (C=Comp, G=grab)		Sample Time (hh:mm)		Sample Date (mm/dd/yy)		Total Number of Containers	
WAN-WGWA-1		G		1055		02/14/23		8 pH= 5.37	
WAN-WGWA-2		G		1210		02/14/23		8 pH= 6.06	
WAN-WGWA-3		G		1710		02/14/23		8 pH= 5.49	
WAN-WGWA-4		G		1005		02/15/23		8 pH= 7.21	
WAN-WGWA-5		G		1425		02/14/23		8 pH= 5.30	
WAN-WGWA-6		G		1553		02/14/23		8 pH= 7.78	
WAN-WGWA-7		G		1540		02/14/23		8 pH= 5.44	
WAN-WGWA-18		G		1420		02/14/23		8 pH= 5.89	
WAN-WGWC-15		G		1115		02/15/23		8 pH= 7.72	
WAN-WGWC-16		G		1220		02/15/23		8 pH= 5.19	
WAN-WGWC-25		G		1500		02/15/23		8 pH= 5.36	
Possible Hazard Identification		Matrix (W=ground water, R=runoff water, H=highly corrosive)		Preservation Code:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
<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		W		WG		N		N	
Deliverable Requested I, II, III, IV, Other (specify)		G		WG		N		N	
Empty Kit Relinquished by		G		WG		N		N	
Relinquished by: <i>Dave Johnson</i>		Date/Time: 2/16/23 / 07:47		Company: ACC		Major Ions - Carbonate, Bicarbonate, Total Alkalinity		Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	
Relinquished by: <i>Dog</i>		Date/Time: 2/16/23		Company: Eurofins		Radium 226 & 228 (SW-846 9315/9320)		App IV Metals (EPA 6020/7470)	
Relinquished by: <i>Dog</i>		Date/Time: 16:00		Company: Eurofins		App III Metals B, Ca		App I, SO & TDS (EPA 300 & SM 2540C)	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 3.5-5.5-2.4-2.4-2.1-2.1		Special Instructions/QC Requirements		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Date: 2/16/23		Time: 16:00		Date/Time: 2/16/23 02:44		Date/Time: 2/16/23 09:30		Date/Time: 02-17-23	
Relinquished by: <i>Dog</i>		Date/Time: 2/16/23		Company: Eurofins		Relinquished by: <i>T. Johnson</i>		Relinquished by: <i>Kurd</i>	
Relinquished by: <i>Dog</i>		Date/Time: 2/16/23		Company: Eurofins		Relinquished by: <i>T. Johnson</i>		Relinquished by: <i>Kurd</i>	
Relinquished by: <i>Dog</i>		Date/Time: 2/16/23		Company: Eurofins		Relinquished by: <i>T. Johnson</i>		Relinquished by: <i>Kurd</i>	

403-43



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM	Carrier Tracking No(s)	COC No.						
Client Contact		Fuller, David	Fuller, David		680-7277552						
Shipping/Receiving		Phone	E-Mail	State of Origin	Page						
Company		David.Fuller@eurofins.com	David.Fuller@eurofins.com	Georgia	Page 2 of 2						
Test/America Laboratories, Inc.		Accreditations Required (See note):		Job #							
Address		NELAP - Florida, State - Georgia		680-230721-2							
13715 Rider Trail North,		Analysis Requested		Preservation Codes:							
City:	Earth City	Due Date Requested:	3/29/2023	A - HCL	M - Hexane						
State, Zip	MO, 63045	TAT Requested (days):		B - NaOH	N - None						
Phone:	314-298-8566(Tel) 314-298-8757(Fax)	PO #:		C - Zn Acetate	O - AsNaO2						
Email:		WO #:		D - Nitric Acid	P - Na2O4S						
Project Name	Plant Wansley - Ash Pond	Project #	68027766	E - NaHSO4	Q - Na2SO3						
Site		SSOW#:		F - MeOH	R - Na2S2O3						
				G - Amchlor	S - H2SO4						
				H - Ascorbic Acid	T - TSP Dodecahydrate						
				I - Ice	U - Acetone						
				J - DI Water	V - MCAA						
				K - EDTA	W - pH 4-5						
				L - EDA	Y - Trizma						
				Other:	Z - other (specify)						
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=volatile, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra226/Presep_0 Radium 228	9315_Ra226/Presep_21 Radium 226	Ra226Ra228_GFPc/ Combined Radium 226 and Radium 228	Total Number of Containers	Special Instructions/Note:
WAN-WGWC-16 (680-230721-10)	2/15/23	12:20 Eastern	Water	Water	X	X	X	X	X	2	
WAN-WGWC-25 (680-230721-11)	2/15/23	15:00 Eastern	Water	Water	X	X	X	X	X	2	
WAN-WGWC-22 (680-230721-12)	2/15/23	14:40 Eastern	Water	Water	X	X	X	X	X	2	
WAN-WGWC-24 (680-230721-13)	2/15/23	13:20 Eastern	Water	Water	X	X	X	X	X	2	
WAN-WGWC-9 (680-230721-14)	2/15/23	16:15 Eastern	Water	Water	X	X	X	X	X	2	
WAN-WGWC-23 (680-230721-15)	2/15/23	16:15 Eastern	Water	Water	X	X	X	X	X	2	
WAN-AP1-FD-01 (680-230721-16)	2/15/23	16:15 Eastern	Water	Water	X	X	X	X	X	2	
WAN-AP1-FB-07 (680-230721-17)	2/15/23	13:15 Eastern	Water	Water	X	X	X	X	X	2	
WAN-AP1-EB-01 (680-230721-18)	2/15/23	16:30 Eastern	Water	Water	X	X	X	X	X	2	
										2	36

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Wansley Turner* Date/Time: *02-20-23*
 Relinquished by: *Liob* Date/Time: *2/21/23 0850*
 Relinquished by: *ESDX* Date/Time: _____
 Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____

Received by: _____ Date/Time: _____ Company: _____
 Received by: *Parima Sharkey* Date/Time: *2/21/23 0850* Company: *ETASTL*
 Received by: _____ Date/Time: _____ Company: _____
 Cooler Temperature(s) °C and Other Remarks: _____



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-230721-2

Login Number: 230721

List Source: Eurofins Savannah

List Number: 1

Creator: Harley, Tynisha

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-230721-2

Login Number: 230721

List Number: 2

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 02/21/23 02:10 PM

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



 **ANALYTICAL REPORT****PREPARED FOR**

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

Generated 3/5/2023 10:42:01 AM

JOB DESCRIPTION

Plant Wansley - Ash Pond - IW Wells

JOB NUMBER

680-230804-1

Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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

Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Generated
3/5/2023 10:42:01 AM

Definitions/Glossary

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

Job ID: 680-230804-1

Qualifiers

HPLC/IC

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Sample Summary

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

Job ID: 680-230804-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-230804-1	WAN-PZ-A2S	Water	02/17/23 11:05	02/18/23 06:30
680-230804-2	WAN-PZ-A2M	Water	02/17/23 11:30	02/18/23 06:30
680-230804-3	WAN-PZ-A2D	Water	02/17/23 10:00	02/18/23 06:30

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Case Narrative

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

Job ID: 680-230804-1

Job ID: 680-230804-1

Laboratory: Eurofins Savannah

Narrative

**Job Narrative
680-230804-1**

Receipt

The samples were received on 2/18/2023 6:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

HPLC/IC

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

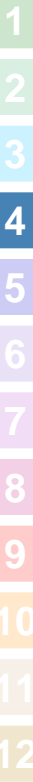
Metals

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

General Chemistry

Method SM4500_S2_F: The following samples were analyzed with headspace in the sample container(s): WAN-PZ-A2D (680-230804-3), (680-230804-C-2 MS) and (680-230804-C-2 MSD).

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



Client Sample Results

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

Job ID: 680-230804-1

Client Sample ID: WAN-PZ-A2S

Lab Sample ID: 680-230804-1

Date Collected: 02/17/23 11:05

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.44		0.10	0.040	mg/L			03/02/23 12:13	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220		10	2.0	mg/L			03/02/23 19:15	10
Sulfate	1500		10	4.0	mg/L			03/02/23 19:15	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 18:47	1
Boron	21	B	1.6	0.44	mg/L		02/21/23 09:52	02/24/23 16:21	20
Calcium	680		10	2.8	mg/L		02/21/23 09:52	02/24/23 16:21	20
Iron	0.17		0.050	0.012	mg/L		02/21/23 09:52	02/22/23 18:47	1
Lithium	0.070		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 18:47	1
Magnesium	20		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 18:47	1
Manganese	0.17		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 18:47	1
Potassium	14		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 18:47	1
Sodium	16		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 18:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	82		5.0	5.0	mg/L			02/22/23 16:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	8.6		5.0	5.0	mg/L			02/22/23 16:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	74		5.0	5.0	mg/L			02/22/23 16:27	1
Total Dissolved Solids (SM 2540C-2011)	2600		80	80	mg/L			02/23/23 13:26	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/24/23 09:26	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	9.66				SU			02/17/23 11:05	1

Client Sample ID: WAN-PZ-A2M

Lab Sample ID: 680-230804-2

Date Collected: 02/17/23 11:30

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.072	J	0.10	0.040	mg/L			03/02/23 12:26	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		10	2.0	mg/L			03/02/23 19:28	10
Sulfate	1400		10	4.0	mg/L			03/02/23 19:28	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00022	J	0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 18:31	1
Boron	49	B	8.0	2.2	mg/L		02/21/23 09:52	02/24/23 16:05	100
Calcium	1300		50	14	mg/L		02/21/23 09:52	02/24/23 16:05	100

Eurofins Savannah

Client Sample Results

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

Job ID: 680-230804-1

Client Sample ID: WAN-PZ-A2M

Lab Sample ID: 680-230804-2

Date Collected: 02/17/23 11:30

Matrix: Water

Date Received: 02/18/23 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.34		0.050	0.012	mg/L		02/21/23 09:52	02/22/23 18:31	1
Lithium	0.18		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 18:31	1
Magnesium	11		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 18:31	1
Manganese	0.012		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 18:31	1
Potassium	33		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 18:31	1
Sodium	28		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	180		5.0	5.0	mg/L			02/22/23 23:57	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:57	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	99		5.0	5.0	mg/L			02/22/23 23:57	1
Total Dissolved Solids (SM 2540C-2011)	4100		200	200	mg/L			02/23/23 13:26	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/24/23 09:26	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	9.84				SU			02/17/23 11:30	1

Client Sample ID: WAN-PZ-A2D

Lab Sample ID: 680-230804-3

Date Collected: 02/17/23 10:00

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.20	mg/L			03/02/23 12:39	1
Fluoride	0.62		0.10	0.040	mg/L			03/02/23 12:39	1
Sulfate	120		1.0	0.40	mg/L			03/02/23 12:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 18:43	1
Boron	0.25	B	0.080	0.022	mg/L		02/21/23 09:52	02/24/23 16:17	1
Calcium	93		0.50	0.14	mg/L		02/21/23 09:52	02/22/23 18:43	1
Iron	0.025	J	0.050	0.012	mg/L		02/21/23 09:52	02/22/23 18:43	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 18:43	1
Magnesium	1.4		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 18:43	1
Manganese	0.0087		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 18:43	1
Potassium	6.3		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 18:43	1
Sodium	2.7		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 18:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	96		5.0	5.0	mg/L			02/22/23 23:46	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	96		5.0	5.0	mg/L			02/22/23 23:46	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:46	1

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Client Sample Results

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

Job ID: 680-230804-1

Client Sample ID: WAN-PZ-A2D

Lab Sample ID: 680-230804-3

Date Collected: 02/17/23 10:00

Matrix: Water

Date Received: 02/18/23 06:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	290		40	40	mg/L			02/23/23 13:26	1
Sulfide (SM 4500 S2 F-2011)	<0.86		0.86	0.86	mg/L			02/24/23 09:26	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.61				SU			02/17/23 10:00	1



QC Sample Results

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

Job ID: 680-230804-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-765703/2
Matrix: Water
Analysis Batch: 765703

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			03/02/23 09:48	1
Fluoride	<0.040		0.10	0.040	mg/L			03/02/23 09:48	1
Sulfate	<0.40		1.0	0.40	mg/L			03/02/23 09:48	1

Lab Sample ID: LCS 680-765703/4
Matrix: Water
Analysis Batch: 765703

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.3		mg/L		103	90 - 110
Fluoride	2.00	2.02		mg/L		101	90 - 110
Sulfate	10.0	10.2		mg/L		102	90 - 110

Lab Sample ID: LCSD 680-765703/5
Matrix: Water
Analysis Batch: 765703

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.3		mg/L		103	90 - 110	0	15
Fluoride	2.00	2.02		mg/L		101	90 - 110	0	15
Sulfate	10.0	10.2		mg/L		102	90 - 110	1	15

Lab Sample ID: 680-230724-D-1 MS
Matrix: Water
Analysis Batch: 765703

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	13		10.0	23.6		mg/L		102	80 - 120
Fluoride	0.052	J	2.00	2.07		mg/L		101	80 - 120
Sulfate	25		10.0	35.6		mg/L		104	80 - 120

Lab Sample ID: 680-230724-D-1 MSD
Matrix: Water
Analysis Batch: 765703

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13		10.0	23.3		mg/L		99	80 - 120	1	15
Fluoride	0.052	J	2.00	1.99		mg/L		97	80 - 120	4	15
Sulfate	25		10.0	35.3		mg/L		101	80 - 120	1	15

Lab Sample ID: MB 680-765704/33
Matrix: Water
Analysis Batch: 765704

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			03/02/23 16:37	1
Fluoride	<0.040		0.10	0.040	mg/L			03/02/23 16:37	1
Sulfate	<0.40		1.0	0.40	mg/L			03/02/23 16:37	1

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QC Sample Results

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

Job ID: 680-230804-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-765704/34
Matrix: Water
Analysis Batch: 765704

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.3		mg/L		103	90 - 110
Fluoride	2.00	2.01		mg/L		100	90 - 110
Sulfate	10.0	9.53		mg/L		95	90 - 110

Lab Sample ID: LCSD 680-765704/35
Matrix: Water
Analysis Batch: 765704

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.3		mg/L		103	90 - 110	0	15
Fluoride	2.00	2.01		mg/L		101	90 - 110	0	15
Sulfate	10.0	9.60		mg/L		96	90 - 110	1	15

Lab Sample ID: 680-230724-D-4 MS
Matrix: Water
Analysis Batch: 765704

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	81		10.0	90.6	4	mg/L		99	80 - 120
Fluoride	0.051	J	2.00	2.03		mg/L		99	80 - 120
Sulfate	7.7		10.0	17.5		mg/L		98	80 - 120

Lab Sample ID: 680-230724-D-4 MSD
Matrix: Water
Analysis Batch: 765704

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	81		10.0	90.7	4	mg/L		100	80 - 120	0	15
Fluoride	0.051	J	2.00	2.05		mg/L		100	80 - 120	1	15
Sulfate	7.7		10.0	17.6		mg/L		99	80 - 120	0	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-764270/1-A
Matrix: Water
Analysis Batch: 764596

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 18:23	1
Calcium	<0.14		0.50	0.14	mg/L		02/21/23 09:52	02/22/23 18:23	1
Iron	<0.012		0.050	0.012	mg/L		02/21/23 09:52	02/22/23 18:23	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 18:23	1
Magnesium	<0.023		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 18:23	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 18:23	1
Potassium	<0.044		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 18:23	1
Sodium	<0.20		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 18:23	1

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QC Sample Results

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

Job ID: 680-230804-1

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

Lab Sample ID: MB 680-764270/1-A
Matrix: Water
Analysis Batch: 764981

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0248	J	0.080	0.022	mg/L		02/21/23 09:52	02/24/23 15:57	1

Lab Sample ID: LCS 680-764270/2-A
Matrix: Water
Analysis Batch: 764596

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0488		mg/L		98	80 - 120
Calcium	5.00	5.14		mg/L		103	80 - 120
Iron	5.00	5.31		mg/L		106	80 - 120
Lithium	0.500	0.493		mg/L		99	80 - 120
Magnesium	5.01	4.92		mg/L		98	80 - 120
Manganese	0.400	0.409		mg/L		102	80 - 120
Potassium	6.97	6.98		mg/L		100	80 - 120
Sodium	5.05	5.26		mg/L		104	80 - 120

Lab Sample ID: LCS 680-764270/2-A
Matrix: Water
Analysis Batch: 764981

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.200	0.218		mg/L		109	80 - 120

Lab Sample ID: 680-230804-2 MS
Matrix: Water
Analysis Batch: 764596

Client Sample ID: WAN-PZ-A2M
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.00022	J	0.0500	0.0497		mg/L		99	75 - 125
Iron	0.34		5.00	5.58		mg/L		105	75 - 125
Lithium	0.18		0.500	0.684		mg/L		102	75 - 125
Magnesium	11		5.01	15.5		mg/L		85	75 - 125
Manganese	0.012		0.400	0.428		mg/L		104	75 - 125
Potassium	33		6.97	38.6	4	mg/L		74	75 - 125
Sodium	28		5.05	31.7	4	mg/L		76	75 - 125

Lab Sample ID: 680-230804-2 MS
Matrix: Water
Analysis Batch: 764981

Client Sample ID: WAN-PZ-A2M
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	49	B	0.200	47.6	4	mg/L		-574	75 - 125
Calcium	1300		5.00	1230	4	mg/L		-1031	75 - 125

Lab Sample ID: 680-230804-2 MSD
Matrix: Water
Analysis Batch: 764596

Client Sample ID: WAN-PZ-A2M
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	0.00022	J	0.0500	0.0510		mg/L		102	75 - 125	3	20

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QC Sample Results

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

Job ID: 680-230804-1

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

Lab Sample ID: 680-230804-2 MSD
Matrix: Water
Analysis Batch: 764596

Client Sample ID: WAN-PZ-A2M
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Iron	0.34		5.00	5.81		mg/L		110	75 - 125	4	20	
Lithium	0.18		0.500	0.702		mg/L		105	75 - 125	3	20	
Magnesium	11		5.01	16.3		mg/L		101	75 - 125	5	20	
Manganese	0.012		0.400	0.452		mg/L		110	75 - 125	6	20	
Potassium	33		6.97	40.3	4	mg/L		98	75 - 125	4	20	
Sodium	28		5.05	33.1	4	mg/L		103	75 - 125	4	20	

Lab Sample ID: 680-230804-2 MSD
Matrix: Water
Analysis Batch: 764981

Client Sample ID: WAN-PZ-A2M
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Boron	49	B	0.200	47.3	4	mg/L		-711	75 - 125	1	20	
Calcium	1300		5.00	1220	4	mg/L		-1072	75 - 125	0	20	

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-764663/4
Matrix: Water
Analysis Batch: 764663

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity	<5.0		5.0	5.0	mg/L			02/22/23 15:05	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/22/23 15:05	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/22/23 15:05	1

Lab Sample ID: LCS 680-764663/6
Matrix: Water
Analysis Batch: 764663

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
Total Alkalinity	250	251		mg/L		101	90 - 112	

Lab Sample ID: LCSD 680-764663/31
Matrix: Water
Analysis Batch: 764663

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

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Total Alkalinity	250	255		mg/L		102	90 - 112	1	30	

Lab Sample ID: 680-230827-A-3 DU
Matrix: Water
Analysis Batch: 764663

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Total Alkalinity	17		15.9		mg/L		6	30
Bicarbonate Alkalinity as CaCO3	17		15.9		mg/L		6	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

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QC Sample Results

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

Job ID: 680-230804-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: MB 680-764666/4
Matrix: Water
Analysis Batch: 764666

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	<5.0		5.0	5.0	mg/L			02/22/23 20:28	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/22/23 20:28	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/22/23 20:28	1

Lab Sample ID: LCS 680-764666/6
Matrix: Water
Analysis Batch: 764666

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	251		mg/L		100	90 - 112

Lab Sample ID: LCSD 680-764666/31
Matrix: Water
Analysis Batch: 764666

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	254		mg/L		102	90 - 112	1	30

Lab Sample ID: 680-230805-F-14 DU
Matrix: Water
Analysis Batch: 764666

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	10		7.34		mg/L		30	30
Bicarbonate Alkalinity as CaCO3	10		7.34		mg/L		30	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-764716/1
Matrix: Water
Analysis Batch: 764716

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			02/23/23 13:26	1

Lab Sample ID: LCS 680-764716/2
Matrix: Water
Analysis Batch: 764716

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	2340	2410		mg/L		103	80 - 120

Lab Sample ID: LCSD 680-764716/3
Matrix: Water
Analysis Batch: 764716

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2340	2360		mg/L		101	80 - 120	2	25

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QC Sample Results

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

Job ID: 680-230804-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: 680-230845-F-2 DU
 Matrix: Water
 Analysis Batch: 764716

Client Sample ID: Duplicate
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	400		406		mg/L		1	5

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-764836/1
 Matrix: Water
 Analysis Batch: 764836

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			02/24/23 09:26	1

Lab Sample ID: LCS 680-764836/2
 Matrix: Water
 Analysis Batch: 764836

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	9.09		mg/L		91	75 - 125

Lab Sample ID: LCSD 680-764836/3
 Matrix: Water
 Analysis Batch: 764836

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	10.0	9.02		mg/L		90	75 - 125	1	30

Lab Sample ID: 680-230804-2 MS
 Matrix: Water
 Analysis Batch: 764836

Client Sample ID: WAN-PZ-A2M
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.81		6.94	5.55		mg/L		80	75 - 125

Lab Sample ID: 680-230804-2 MSD
 Matrix: Water
 Analysis Batch: 764836

Client Sample ID: WAN-PZ-A2M
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.81		6.94	5.55		mg/L		80	75 - 125	0	30

Lab Sample ID: 680-230804-1 DU
 Matrix: Water
 Analysis Batch: 764836

Client Sample ID: WAN-PZ-A2S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	<0.81		<0.81		mg/L		NC	30

QC Association Summary

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

Job ID: 680-230804-1

HPLC/IC

Analysis Batch: 765703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total/NA	Water	300.0-1993 R2.1	
680-230804-2	WAN-PZ-A2M	Total/NA	Water	300.0-1993 R2.1	
680-230804-3	WAN-PZ-A2D	Total/NA	Water	300.0-1993 R2.1	
MB 680-765703/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-765703/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-765703/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-230724-D-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-230724-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 765704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1 - DL	WAN-PZ-A2S	Total/NA	Water	300.0-1993 R2.1	
680-230804-2 - DL	WAN-PZ-A2M	Total/NA	Water	300.0-1993 R2.1	
MB 680-765704/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-765704/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-765704/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-230724-D-4 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-230724-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 764270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total Recoverable	Water	3005A	
680-230804-2	WAN-PZ-A2M	Total Recoverable	Water	3005A	
680-230804-3	WAN-PZ-A2D	Total Recoverable	Water	3005A	
MB 680-764270/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-764270/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-230804-2 MS	WAN-PZ-A2M	Total Recoverable	Water	3005A	
680-230804-2 MSD	WAN-PZ-A2M	Total Recoverable	Water	3005A	

Analysis Batch: 764596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total Recoverable	Water	6020B	764270
680-230804-2	WAN-PZ-A2M	Total Recoverable	Water	6020B	764270
680-230804-3	WAN-PZ-A2D	Total Recoverable	Water	6020B	764270
MB 680-764270/1-A	Method Blank	Total Recoverable	Water	6020B	764270
LCS 680-764270/2-A	Lab Control Sample	Total Recoverable	Water	6020B	764270
680-230804-2 MS	WAN-PZ-A2M	Total Recoverable	Water	6020B	764270
680-230804-2 MSD	WAN-PZ-A2M	Total Recoverable	Water	6020B	764270

Analysis Batch: 764981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total Recoverable	Water	6020B	764270
680-230804-2	WAN-PZ-A2M	Total Recoverable	Water	6020B	764270
680-230804-3	WAN-PZ-A2D	Total Recoverable	Water	6020B	764270
MB 680-764270/1-A	Method Blank	Total Recoverable	Water	6020B	764270
LCS 680-764270/2-A	Lab Control Sample	Total Recoverable	Water	6020B	764270
680-230804-2 MS	WAN-PZ-A2M	Total Recoverable	Water	6020B	764270
680-230804-2 MSD	WAN-PZ-A2M	Total Recoverable	Water	6020B	764270

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QC Association Summary

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

Job ID: 680-230804-1

General Chemistry

Analysis Batch: 764663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total/NA	Water	2320B-2011	
MB 680-764663/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-764663/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-764663/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-230827-A-3 DU	Duplicate	Total/NA	Water	2320B-2011	

Analysis Batch: 764666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-2	WAN-PZ-A2M	Total/NA	Water	2320B-2011	
680-230804-3	WAN-PZ-A2D	Total/NA	Water	2320B-2011	
MB 680-764666/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-764666/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-764666/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-230805-F-14 DU	Duplicate	Total/NA	Water	2320B-2011	

Analysis Batch: 764716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total/NA	Water	2540C-2011	
680-230804-2	WAN-PZ-A2M	Total/NA	Water	2540C-2011	
680-230804-3	WAN-PZ-A2D	Total/NA	Water	2540C-2011	
MB 680-764716/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-764716/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-764716/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-230845-F-2 DU	Duplicate	Total/NA	Water	2540C-2011	

Analysis Batch: 764836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total/NA	Water	4500 S2 F-2011	
680-230804-2	WAN-PZ-A2M	Total/NA	Water	4500 S2 F-2011	
680-230804-3	WAN-PZ-A2D	Total/NA	Water	4500 S2 F-2011	
MB 680-764836/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-764836/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-764836/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-230804-2 MS	WAN-PZ-A2M	Total/NA	Water	4500 S2 F-2011	
680-230804-2 MSD	WAN-PZ-A2M	Total/NA	Water	4500 S2 F-2011	
680-230804-1 DU	WAN-PZ-A2S	Total/NA	Water	4500 S2 F-2011	

Field Service / Mobile Lab

Analysis Batch: 764382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total/NA	Water	Field Sampling	
680-230804-2	WAN-PZ-A2M	Total/NA	Water	Field Sampling	
680-230804-3	WAN-PZ-A2D	Total/NA	Water	Field Sampling	

Lab Chronicle

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

Job ID: 680-230804-1

Client Sample ID: WAN-PZ-A2S

Lab Sample ID: 680-230804-1

Date Collected: 02/17/23 11:05

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	765703	03/02/23 12:13	UI	EET SAV
		Instrument ID: CICK								
Total/NA	Analysis	300.0-1993 R2.1	DL	10	5 mL	5 mL	765704	03/02/23 19:15	UI	EET SAV
		Instrument ID: CICK								
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 18:47	BWR	EET SAV
		Instrument ID: ICPMSC								
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		20			764981	02/24/23 16:21	BWR	EET SAV
		Instrument ID: ICPMSC								
Total/NA	Analysis	2320B-2011		1			764663	02/22/23 16:27	PG	EET SAV
		Instrument ID: MANTECH 2								
Total/NA	Analysis	2540C-2011		1	25 mL	200 mL	764716	02/23/23 13:26	PG	EET SAV
		Instrument ID: NOEQUIP								
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	764836	02/24/23 09:26	JAS	EET SAV
		Instrument ID: NoEquip								
Total/NA	Analysis	Field Sampling		1			764382	02/17/23 11:05	P1C	EET SAV
		Instrument ID: NOEQUIP								

Client Sample ID: WAN-PZ-A2M

Lab Sample ID: 680-230804-2

Date Collected: 02/17/23 11:30

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	765703	03/02/23 12:26	UI	EET SAV
		Instrument ID: CICK								
Total/NA	Analysis	300.0-1993 R2.1	DL	10	5 mL	5 mL	765704	03/02/23 19:28	UI	EET SAV
		Instrument ID: CICK								
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 18:31	BWR	EET SAV
		Instrument ID: ICPMSC								
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		100			764981	02/24/23 16:05	BWR	EET SAV
		Instrument ID: ICPMSC								
Total/NA	Analysis	2320B-2011		1			764666	02/22/23 23:57	PG	EET SAV
		Instrument ID: MANTECH 2								
Total/NA	Analysis	2540C-2011		1	10 mL	200 mL	764716	02/23/23 13:26	PG	EET SAV
		Instrument ID: NOEQUIP								
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	764836	02/24/23 09:26	JAS	EET SAV
		Instrument ID: NoEquip								
Total/NA	Analysis	Field Sampling		1			764382	02/17/23 11:30	P1C	EET SAV
		Instrument ID: NOEQUIP								

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Lab Chronicle

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

Job ID: 680-230804-1

Client Sample ID: WAN-PZ-A2D

Lab Sample ID: 680-230804-3

Date Collected: 02/17/23 10:00

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	765703	03/02/23 12:39	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 18:43	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764981	02/24/23 16:17	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2320B-2011		1			764666	02/22/23 23:46	PG	EET SAV
Instrument ID: MANTECH 2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	764716	02/23/23 13:26	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	4500 S2 F-2011		1	290 mL	290 mL	764836	02/24/23 09:26	JAS	EET SAV
Instrument ID: NoEquip										
Total/NA	Analysis	Field Sampling		1			764382	02/17/23 10:00	P1C	EET SAV
Instrument ID: NOEQUIP										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

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

Job ID: 680-230804-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-23
Georgia	State	E87052	06-30-23

1

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Method Summary

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

Job ID: 680-230804-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
4500 S2 F-2011	Sulfide, Total	SM	EET SAV
Field Sampling	Field Sampling	EPA	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody Record

Client Information Client Contact: <u>David Fuller</u> SCS Contacts: <u>David Fuller</u> Company: <u>GA Power</u>		Lab PM: <u>David Fuller</u> E-Mail: <u>David Fuller</u>		Carrier Tracking No(s): Job #: <u>101</u>	
Address: <u>2411 Ralph McGill Blvd SE</u> City: <u>Atlanta</u> State: <u>GA</u> , Zip: <u>30308</u> Phone: <u>404-506-7116(Tel)</u> Email: <u>SCS Contacts / Geosyntec Contacts / ACC Contacts</u> Project Name: <u>Plant Wansley Ash Pond - IW Wells</u> Site:		Due Date Requested: TAT Requested (days): <u>Standard</u> Lab Project #: <u>68027766</u> PO #: <u>Project #:</u> SOW#:		Analysis Requested Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium Major Ions - Sulfide Major Ions - Carbonate, Bicarbonate, Total Alkalinity Radium 226 & 228 (SW-846 9316/9320) Select Metals (EPA 6020) Be, Li Cl, F, SO & TDS (EPA 300 & SM 2540C) App III Metals B, Ca Perform MS/MSD (Yes or No)	
Sample Identification WAN-PZ-A2S WAN- AWAN -PZ-A2M WAN-PZ-A2D		Sample Date (mm/dd/yy) 02/17/23 02/17/23 02/17/23		Sample Time (hhmm) 1105 1130 1000	
Sample Type (C=Comp, G=grab) Preservation Code:		Field Filtered Sample (Yes or No)		Total Number of Containers	
G G G		N N N		X 6 6 6	
pH= 9.66 pH= 9.84 pH= 7.61		Task Code: WAN-CCR-ASSMT-2023S1 Special Instructions/Note Full APP III and Major Ions		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	
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 checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months		Special Instructions/QC Requirements: 680-230804 Chain of Custody	
Deliverable Requested I, II, III, IV Other (specify)		Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <u>David Fuller</u>		Date/Time: <u>2/17/23 1427</u>		Company:	
Relinquished by: <u>Michael Mesford</u>		Date/Time: <u>2/17/23 1427</u>		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: <u>Custody Seal No</u> Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: <u>1.0/1.0</u>		Ver: 01/16/2019	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-230804-1

Login Number: 230804

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



 **ANALYTICAL REPORT****PREPARED FOR**

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

Generated 3/22/2023 9:13:10 PM Revision 1

JOB DESCRIPTION

Plant Wansley - Ash Pond

JOB NUMBER

680-230805-1

Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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

Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Revision 1

Definitions/Glossary

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

Job ID: 680-230805-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

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

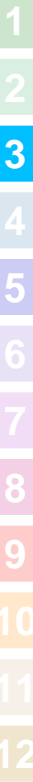
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Sample Summary

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

Job ID: 680-230805-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-230805-1	WAN-WGWC-8	Water	02/16/23 14:52	02/18/23 06:30
680-230805-2	WAN-WGWC-10	Water	02/16/23 13:18	02/18/23 06:30
680-230805-3	WAN-WGWC-11	Water	02/16/23 11:55	02/18/23 06:30
680-230805-4	WAN-WGWC-12	Water	02/16/23 10:55	02/18/23 06:30
680-230805-5	WAN-WGWC-13	Water	02/16/23 15:25	02/18/23 06:30
680-230805-6	WAN-WGWC-14A	Water	02/16/23 13:30	02/18/23 06:30
680-230805-7	WAN-WGWC-17	Water	02/16/23 11:02	02/18/23 06:30
680-230805-8	WAN-WGWC-19	Water	02/16/23 13:09	02/18/23 06:30
680-230805-9	WAN-WGWC-20	Water	02/16/23 10:05	02/18/23 06:30
680-230805-10	WAN-WGWC-21	Water	02/16/23 16:07	02/18/23 06:30
680-230805-11	WAN-WGWC-26D	Water	02/16/23 12:50	02/18/23 06:30
680-230805-12	WAN-WGWC-27	Water	02/16/23 15:25	02/18/23 06:30
680-230805-13	WAN-AP1-FD-02	Water	02/16/23 00:00	02/18/23 06:30
680-230805-14	WAN-AP1-FD-03	Water	02/16/23 00:00	02/18/23 06:30
680-230805-15	WAN-AP1-FB-08	Water	02/16/23 12:25	02/18/23 06:30
680-230805-16	WAN-AP1-FB-09	Water	02/16/23 15:55	02/18/23 06:30
680-230805-17	WAN-AP1-EB-02	Water	02/16/23 09:10	02/18/23 06:30
680-230805-18	WAN-AP1-EB-03	Water	02/16/23 16:15	02/18/23 06:30



Case Narrative

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

Job ID: 680-230805-1

Job ID: 680-230805-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-230805-1

Revision 1

The report being provided is a revision of the original report sent on 3/6/2023. The report (revision 1) is being revised in order to correct the pH transcription error for WAN-WGWC-17 and to report the re-analysis for WAN-WGWC-13 (680-230805-5) for Chromium.

Receipt

The samples were received on 2/18/2023 6:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.1°C, 0.6°C, 0.9°C, 1.1°C and 1.4°C

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-765704 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Metals

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

General Chemistry

Method 2320B: The sample duplicate precision for the following sample associated with analytical batch 680-764663 was outside control limits: (680-230805-F-1 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Method SM4500_S2_F: The following samples were analyzed with headspace in the sample container(s): WAN-WGWC-8 (680-230805-1), WAN-WGWC-11 (680-230805-3), WAN-WGWC-12 (680-230805-4), WAN-WGWC-19 (680-230805-8), WAN-WGWC-20 (680-230805-9), WAN-WGWC-21 (680-230805-10), WAN-WGWC-26D (680-230805-11), WAN-WGWC-27 (680-230805-12), WAN-AP1-FD-02 (680-230805-13), WAN-AP1-FD-03 (680-230805-14) and WAN-AP1-FB-09 (680-230805-16).

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

Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-230805-1

Date Collected: 02/16/23 14:52

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		1.0	0.20	mg/L			03/02/23 12:52	1
Fluoride	0.14		0.10	0.040	mg/L			03/02/23 12:52	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	250		5.0	2.0	mg/L			03/03/23 15:23	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00064	J	0.0020	0.00034	mg/L		02/21/23 10:20	02/22/23 20:41	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 10:20	02/22/23 20:41	1
Barium	0.00093	J	0.010	0.00089	mg/L		02/21/23 10:20	02/22/23 20:41	1
Beryllium	0.0025		0.0025	0.00020	mg/L		02/21/23 10:20	02/22/23 20:41	1
Boron	2.8		0.32	0.088	mg/L		02/21/23 10:20	02/23/23 16:54	4
Cadmium	0.00065	J	0.0025	0.000078	mg/L		02/21/23 10:20	02/22/23 20:41	1
Calcium	92		0.50	0.14	mg/L		02/21/23 10:20	02/22/23 20:41	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 10:20	02/22/23 20:41	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/21/23 10:20	02/22/23 20:41	1
Iron	<0.048		0.20	0.048	mg/L		02/21/23 10:20	02/23/23 16:54	4
Lead	0.00029	J	0.0010	0.00021	mg/L		02/21/23 10:20	02/22/23 20:41	1
Lithium	0.010		0.0050	0.0020	mg/L		02/21/23 10:20	02/22/23 20:41	1
Magnesium	24		0.50	0.023	mg/L		02/21/23 10:20	02/22/23 20:41	1
Manganese	0.0083		0.0050	0.0022	mg/L		02/21/23 10:20	02/22/23 20:41	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/21/23 10:20	02/22/23 20:41	1
Potassium	9.5		0.50	0.044	mg/L		02/21/23 10:20	02/22/23 20:41	1
Selenium	0.0033	J	0.0050	0.00099	mg/L		02/21/23 10:20	02/22/23 20:41	1
Sodium	38		0.50	0.20	mg/L		02/21/23 10:20	02/22/23 20:41	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 10:20	02/22/23 20:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 15:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	9.7		5.0	5.0	mg/L			02/22/23 17:20	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	9.7		5.0	5.0	mg/L			02/22/23 17:20	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 17:20	1
Total Dissolved Solids (SM 2540C-2011)	590		40	40	mg/L			02/22/23 12:05	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/23/23 12:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.22				SU			02/16/23 14:52	1

Eurofins Savannah

Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-230805-2

Date Collected: 02/16/23 13:18

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.20	mg/L			02/25/23 01:55	1
Fluoride	0.11		0.10	0.040	mg/L			02/25/23 01:55	1
Sulfate	1.8		1.0	0.40	mg/L			02/25/23 01:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 10:20	02/22/23 20:49	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 10:20	02/22/23 20:49	1
Barium	0.032		0.010	0.00089	mg/L		02/21/23 10:20	02/22/23 20:49	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 10:20	02/22/23 20:49	1
Boron	0.040	J	0.080	0.022	mg/L		02/21/23 10:20	02/23/23 17:02	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/21/23 10:20	02/22/23 20:49	1
Calcium	6.9		0.50	0.14	mg/L		02/21/23 10:20	02/22/23 20:49	1
Chromium	0.0014	J	0.0020	0.0012	mg/L		02/21/23 10:20	02/22/23 20:49	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/21/23 10:20	02/22/23 20:49	1
Iron	<0.012		0.050	0.012	mg/L		02/21/23 10:20	02/23/23 17:02	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 10:20	02/22/23 20:49	1
Lithium	0.0025	J	0.0050	0.0020	mg/L		02/21/23 10:20	02/22/23 20:49	1
Magnesium	1.6		0.50	0.023	mg/L		02/21/23 10:20	02/22/23 20:49	1
Manganese	0.0056		0.0050	0.0022	mg/L		02/21/23 10:20	02/22/23 20:49	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/21/23 10:20	02/22/23 20:49	1
Potassium	1.7		0.50	0.044	mg/L		02/21/23 10:20	02/22/23 20:49	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/21/23 10:20	02/22/23 20:49	1
Sodium	3.6		0.50	0.20	mg/L		02/21/23 10:20	02/22/23 20:49	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 10:20	02/22/23 20:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 16:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	33		5.0	5.0	mg/L			02/22/23 16:52	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	33		5.0	5.0	mg/L			02/22/23 16:52	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 16:52	1
Total Dissolved Solids (SM 2540C-2011)	54		10	10	mg/L			02/22/23 12:05	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/23/23 12:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.39				SU			02/16/23 13:18	1

Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-11

Lab Sample ID: 680-230805-3

Date Collected: 02/16/23 11:55

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.3		1.0	0.20	mg/L			02/25/23 02:35	1
Fluoride	0.041	J	0.10	0.040	mg/L			02/25/23 02:35	1
Sulfate	1.0		1.0	0.40	mg/L			02/25/23 02:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 10:20	02/22/23 20:29	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 10:20	02/22/23 20:29	1
Barium	0.041		0.010	0.00089	mg/L		02/21/23 10:20	02/22/23 20:29	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 10:20	02/22/23 20:29	1
Boron	<0.022		0.080	0.022	mg/L		02/21/23 10:20	02/23/23 16:42	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/21/23 10:20	02/22/23 20:29	1
Calcium	1.7		0.50	0.14	mg/L		02/21/23 10:20	02/22/23 20:29	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 10:20	02/22/23 20:29	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/21/23 10:20	02/22/23 20:29	1
Iron	0.022	J	0.050	0.012	mg/L		02/21/23 10:20	02/23/23 16:42	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 10:20	02/22/23 20:29	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/21/23 10:20	02/22/23 20:29	1
Magnesium	1.3		0.50	0.023	mg/L		02/21/23 10:20	02/22/23 20:29	1
Manganese	0.016		0.0050	0.0022	mg/L		02/21/23 10:20	02/22/23 20:29	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/21/23 10:20	02/22/23 20:29	1
Potassium	1.2		0.50	0.044	mg/L		02/21/23 10:20	02/22/23 20:29	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/21/23 10:20	02/22/23 20:29	1
Sodium	3.4		0.50	0.20	mg/L		02/21/23 10:20	02/22/23 20:29	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 10:20	02/22/23 20:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	11		5.0	5.0	mg/L			02/22/23 16:44	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	11		5.0	5.0	mg/L			02/22/23 16:44	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 16:44	1
Total Dissolved Solids (SM 2540C-2011)	33		10	10	mg/L			02/22/23 12:05	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/23/23 12:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.69				SU			02/16/23 11:55	1

Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-230805-4

Date Collected: 02/16/23 10:55

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.20	mg/L			02/25/23 02:48	1
Fluoride	0.089	J	0.10	0.040	mg/L			02/25/23 02:48	1
Sulfate	2.8		1.0	0.40	mg/L			02/25/23 02:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 10:20	02/22/23 20:53	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 10:20	02/22/23 20:53	1
Barium	0.014		0.010	0.00089	mg/L		02/21/23 10:20	02/22/23 20:53	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 10:20	02/22/23 20:53	1
Boron	0.024	J	0.080	0.022	mg/L		02/21/23 10:20	02/23/23 17:06	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/21/23 10:20	02/22/23 20:53	1
Calcium	12		0.50	0.14	mg/L		02/21/23 10:20	02/22/23 20:53	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 10:20	02/22/23 20:53	1
Cobalt	0.00040	J	0.0025	0.00022	mg/L		02/21/23 10:20	02/22/23 20:53	1
Iron	1.5		0.050	0.012	mg/L		02/21/23 10:20	02/23/23 17:06	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 10:20	02/22/23 20:53	1
Lithium	0.0036	J	0.0050	0.0020	mg/L		02/21/23 10:20	02/22/23 20:53	1
Magnesium	2.6		0.50	0.023	mg/L		02/21/23 10:20	02/22/23 20:53	1
Manganese	0.013		0.0050	0.0022	mg/L		02/21/23 10:20	02/22/23 20:53	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/21/23 10:20	02/22/23 20:53	1
Potassium	2.0		0.50	0.044	mg/L		02/21/23 10:20	02/22/23 20:53	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/21/23 10:20	02/22/23 20:53	1
Sodium	5.8		0.50	0.20	mg/L		02/21/23 10:20	02/22/23 20:53	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 10:20	02/22/23 20:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 16:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	43		5.0	5.0	mg/L			02/22/23 17:36	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	43		5.0	5.0	mg/L			02/22/23 17:36	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 17:36	1
Total Dissolved Solids (SM 2540C-2011)	89		10	10	mg/L			02/22/23 12:05	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/23/23 12:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.61				SU			02/16/23 10:55	1

Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-13

Lab Sample ID: 680-230805-5

Date Collected: 02/16/23 15:25

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.97	J	1.0	0.20	mg/L			02/25/23 03:02	1
Fluoride	0.15		0.10	0.040	mg/L			02/25/23 03:02	1
Sulfate	2.3		1.0	0.40	mg/L			02/25/23 03:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 10:20	02/22/23 20:17	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 10:20	02/22/23 20:17	1
Barium	0.037		0.010	0.00089	mg/L		02/21/23 10:20	02/22/23 20:17	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 10:20	02/22/23 20:17	1
Boron	0.033	J	0.080	0.022	mg/L		02/21/23 10:20	02/23/23 16:30	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/21/23 10:20	02/22/23 20:17	1
Calcium	3.8		0.50	0.14	mg/L		02/21/23 10:20	02/22/23 20:17	1
Chromium	<0.0012		0.0020	0.0012	mg/L		03/21/23 05:25	03/22/23 00:29	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/21/23 10:20	02/22/23 20:17	1
Iron	0.095		0.050	0.012	mg/L		02/21/23 10:20	02/23/23 16:30	1
Lead	0.00027	J	0.0010	0.00021	mg/L		02/21/23 10:20	02/22/23 20:17	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/21/23 10:20	02/22/23 20:17	1
Magnesium	0.48	J	0.50	0.023	mg/L		02/21/23 10:20	02/22/23 20:17	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/21/23 10:20	02/22/23 20:17	1
Molybdenum	0.0013	J	0.015	0.00086	mg/L		02/21/23 10:20	02/22/23 20:17	1
Potassium	1.7		0.50	0.044	mg/L		02/21/23 10:20	02/22/23 20:17	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/21/23 10:20	02/22/23 20:17	1
Sodium	9.3		0.50	0.20	mg/L		02/21/23 10:20	02/22/23 20:17	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 10:20	02/22/23 20:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 16:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	33		5.0	5.0	mg/L			02/22/23 17:44	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	33		5.0	5.0	mg/L			02/22/23 17:44	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 17:44	1
Total Dissolved Solids (SM 2540C-2011)	81		10	10	mg/L			02/22/23 12:05	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/23/23 12:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.27				SU			02/16/23 15:25	1

Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-14A

Lab Sample ID: 680-230805-6

Date Collected: 02/16/23 13:30

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.20	mg/L			02/25/23 03:15	1
Fluoride	<0.040		0.10	0.040	mg/L			02/25/23 03:15	1
Sulfate	0.47	J	1.0	0.40	mg/L			02/25/23 03:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 09:52	02/22/23 19:20	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 09:52	02/22/23 19:20	1
Barium	0.028		0.010	0.00089	mg/L		02/21/23 09:52	02/22/23 19:20	1
Beryllium	0.00031	J	0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 19:20	1
Boron	0.030	J B	0.080	0.022	mg/L		02/21/23 09:52	02/24/23 16:53	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/21/23 09:52	02/22/23 19:20	1
Calcium	0.69		0.50	0.14	mg/L		02/21/23 09:52	02/22/23 19:20	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 09:52	02/22/23 19:20	1
Cobalt	0.0022	J	0.0025	0.00022	mg/L		02/21/23 09:52	02/22/23 19:20	1
Iron	0.044	J	0.050	0.012	mg/L		02/21/23 09:52	02/22/23 19:20	1
Lead	0.00024	J	0.0010	0.00021	mg/L		02/21/23 09:52	02/22/23 19:20	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 19:20	1
Magnesium	0.71		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 19:20	1
Manganese	0.055		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 19:20	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/21/23 09:52	02/22/23 19:20	1
Potassium	1.7		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 19:20	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/21/23 09:52	02/22/23 19:20	1
Sodium	4.0		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 19:20	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 09:52	02/22/23 19:20	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 16:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	12		5.0	5.0	mg/L			02/22/23 17:52	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	12		5.0	5.0	mg/L			02/22/23 17:52	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 17:52	1
Total Dissolved Solids (SM 2540C-2011)	27		10	10	mg/L			02/22/23 12:05	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/23/23 12:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.40				SU			02/16/23 13:30	1

Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-230805-7

Date Collected: 02/16/23 11:02

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.20	mg/L			02/25/23 03:28	1
Fluoride	0.069	J	0.10	0.040	mg/L			02/25/23 03:28	1
Sulfate	2.6		1.0	0.40	mg/L			02/25/23 03:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 10:20	02/22/23 20:25	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 10:20	02/22/23 20:25	1
Barium	0.010		0.010	0.00089	mg/L		02/21/23 10:20	02/22/23 20:25	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 10:20	02/22/23 20:25	1
Boron	<0.022		0.080	0.022	mg/L		02/21/23 10:20	02/23/23 16:38	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/21/23 10:20	02/22/23 20:25	1
Calcium	6.0		0.50	0.14	mg/L		02/21/23 10:20	02/22/23 20:25	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 10:20	02/22/23 20:25	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/21/23 10:20	02/22/23 20:25	1
Iron	0.15		0.050	0.012	mg/L		02/21/23 10:20	02/23/23 16:38	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 10:20	02/22/23 20:25	1
Lithium	0.0026	J	0.0050	0.0020	mg/L		02/21/23 10:20	02/22/23 20:25	1
Magnesium	3.5		0.50	0.023	mg/L		02/21/23 10:20	02/22/23 20:25	1
Manganese	0.0072		0.0050	0.0022	mg/L		02/21/23 10:20	02/22/23 20:25	1
Molybdenum	0.0022	J	0.015	0.00086	mg/L		02/21/23 10:20	02/22/23 20:25	1
Potassium	1.7		0.50	0.044	mg/L		02/21/23 10:20	02/22/23 20:25	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/21/23 10:20	02/22/23 20:25	1
Sodium	9.2		0.50	0.20	mg/L		02/21/23 10:20	02/22/23 20:25	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 10:20	02/22/23 20:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 15:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	46		5.0	5.0	mg/L			02/22/23 18:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	46		5.0	5.0	mg/L			02/22/23 18:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 18:00	1
Total Dissolved Solids (SM 2540C-2011)	77		10	10	mg/L			02/22/23 12:05	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/23/23 12:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.28				SU			02/16/23 11:02	1

Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-19

Lab Sample ID: 680-230805-8

Date Collected: 02/16/23 13:09

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.6		1.0	0.20	mg/L			02/25/23 03:41	1
Fluoride	0.33		0.10	0.040	mg/L			02/25/23 03:41	1
Sulfate	3.0		1.0	0.40	mg/L			02/25/23 03:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 10:20	02/22/23 20:57	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 10:20	02/22/23 20:57	1
Barium	0.00096	J	0.010	0.00089	mg/L		02/21/23 10:20	02/22/23 20:57	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 10:20	02/22/23 20:57	1
Boron	<0.022		0.080	0.022	mg/L		02/21/23 10:20	02/23/23 17:10	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/21/23 10:20	02/22/23 20:57	1
Calcium	13		0.50	0.14	mg/L		02/21/23 10:20	02/22/23 20:57	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 10:20	02/22/23 20:57	1
Cobalt	0.00053	J	0.0025	0.00022	mg/L		02/21/23 10:20	02/22/23 20:57	1
Iron	0.14		0.050	0.012	mg/L		02/21/23 10:20	02/23/23 17:10	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 10:20	02/22/23 20:57	1
Lithium	0.053		0.0050	0.0020	mg/L		02/21/23 10:20	02/22/23 20:57	1
Magnesium	9.0		0.50	0.023	mg/L		02/21/23 10:20	02/22/23 20:57	1
Manganese	0.019		0.0050	0.0022	mg/L		02/21/23 10:20	02/22/23 20:57	1
Molybdenum	0.0014	J	0.015	0.00086	mg/L		02/21/23 10:20	02/22/23 20:57	1
Potassium	1.3		0.50	0.044	mg/L		02/21/23 10:20	02/22/23 20:57	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/21/23 10:20	02/22/23 20:57	1
Sodium	7.6		0.50	0.20	mg/L		02/21/23 10:20	02/22/23 20:57	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 10:20	02/22/23 20:57	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	88		5.0	5.0	mg/L			02/22/23 18:28	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	88		5.0	5.0	mg/L			02/22/23 18:28	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 18:28	1
Total Dissolved Solids (SM 2540C-2011)	100		10	10	mg/L			02/22/23 12:05	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/23/23 12:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.80				SU			02/16/23 13:09	1

Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-20

Lab Sample ID: 680-230805-9

Date Collected: 02/16/23 10:05

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230		5.0	1.0	mg/L			02/25/23 03:54	5
Fluoride	1.9		0.50	0.20	mg/L			02/25/23 03:54	5
Sulfate	350		5.0	2.0	mg/L			02/25/23 03:54	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 09:52	02/22/23 19:28	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 09:52	02/22/23 19:28	1
Barium	<0.00089		0.010	0.00089	mg/L		02/21/23 09:52	02/22/23 19:28	1
Beryllium	0.011		0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 19:28	1
Boron	3.5	B	0.80	0.22	mg/L		02/21/23 09:52	02/24/23 17:02	10
Cadmium	0.00057	J	0.0025	0.000078	mg/L		02/21/23 09:52	02/22/23 19:28	1
Calcium	190		0.50	0.14	mg/L		02/21/23 09:52	02/22/23 19:28	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 09:52	02/22/23 19:28	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/21/23 09:52	02/22/23 19:28	1
Iron	<0.012		0.050	0.012	mg/L		02/21/23 09:52	02/22/23 19:28	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 09:52	02/22/23 19:28	1
Lithium	0.14		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 19:28	1
Magnesium	44		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 19:28	1
Manganese	0.36		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 19:28	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/21/23 09:52	02/22/23 19:28	1
Potassium	6.6		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 19:28	1
Selenium	0.0017	J	0.0050	0.00099	mg/L		02/21/23 09:52	02/22/23 19:28	1
Sodium	54		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 19:28	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 09:52	02/22/23 19:28	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 16:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	9.5		5.0	5.0	mg/L			02/22/23 23:20	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	9.5		5.0	5.0	mg/L			02/22/23 23:20	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:20	1
Total Dissolved Solids (SM 2540C-2011)	960		40	40	mg/L			02/22/23 12:05	1
Sulfide (SM 4500 S2 F-2011)	<0.86		0.86	0.86	mg/L			02/23/23 12:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.17				SU			02/16/23 10:05	1

Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-21

Lab Sample ID: 680-230805-10

Date Collected: 02/16/23 16:07

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51		1.0	0.20	mg/L			03/02/23 13:06	1
Fluoride	1.9		0.10	0.040	mg/L			03/02/23 13:06	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	340		5.0	2.0	mg/L			03/03/23 15:36	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 09:52	02/22/23 19:32	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 09:52	02/22/23 19:32	1
Barium	0.0053	J	0.010	0.00089	mg/L		02/21/23 09:52	02/22/23 19:32	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 19:32	1
Boron	0.14	B	0.080	0.022	mg/L		02/21/23 09:52	02/24/23 17:06	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/21/23 09:52	02/22/23 19:32	1
Calcium	68		0.50	0.14	mg/L		02/21/23 09:52	02/22/23 19:32	1
Chromium	0.0015	J	0.0020	0.0012	mg/L		02/21/23 09:52	02/22/23 19:32	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/21/23 09:52	02/22/23 19:32	1
Iron	0.079		0.050	0.012	mg/L		02/21/23 09:52	02/22/23 19:32	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 09:52	02/22/23 19:32	1
Lithium	0.053		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 19:32	1
Magnesium	9.0		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 19:32	1
Manganese	0.040		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 19:32	1
Molybdenum	0.034		0.015	0.00086	mg/L		02/21/23 09:52	02/22/23 19:32	1
Potassium	3.1		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 19:32	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/21/23 09:52	02/22/23 19:32	1
Sodium	160		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 19:32	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 09:52	02/22/23 19:32	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	110		5.0	5.0	mg/L			02/22/23 18:10	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	110		5.0	5.0	mg/L			02/22/23 18:10	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 18:10	1
Total Dissolved Solids (SM 2540C-2011)	630		40	40	mg/L			02/22/23 12:05	1
Sulfide (SM 4500 S2 F-2011)	1.1		0.83	0.83	mg/L			02/23/23 12:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.92				SU			02/16/23 16:07	1

Eurofins Savannah

Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-26D

Lab Sample ID: 680-230805-11

Date Collected: 02/16/23 12:50

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	280		2.0	0.40	mg/L			03/02/23 20:21	2
Fluoride	1.7		0.20	0.080	mg/L			03/02/23 20:21	2
Sulfate	370		2.0	0.80	mg/L			03/02/23 20:21	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 09:52	02/22/23 19:16	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 09:52	02/22/23 19:16	1
Barium	0.0045	J	0.010	0.00089	mg/L		02/21/23 09:52	02/22/23 19:16	1
Beryllium	0.0079		0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 19:16	1
Boron	3.9	B	0.80	0.22	mg/L		02/21/23 09:52	02/24/23 16:49	10
Cadmium	0.00018	J	0.0025	0.000078	mg/L		02/21/23 09:52	02/22/23 19:16	1
Calcium	180		0.50	0.14	mg/L		02/21/23 09:52	02/22/23 19:16	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 09:52	02/22/23 19:16	1
Cobalt	0.0014	J	0.0025	0.00022	mg/L		02/21/23 09:52	02/22/23 19:16	1
Iron	1.6		0.050	0.012	mg/L		02/21/23 09:52	02/22/23 19:16	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 09:52	02/22/23 19:16	1
Lithium	0.17		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 19:16	1
Magnesium	57		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 19:16	1
Manganese	0.73		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 19:16	1
Molybdenum	0.0060	J	0.015	0.00086	mg/L		02/21/23 09:52	02/22/23 19:16	1
Potassium	4.6		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 19:16	1
Selenium	0.0012	J	0.0050	0.00099	mg/L		02/21/23 09:52	02/22/23 19:16	1
Sodium	53		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 19:16	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 09:52	02/22/23 19:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 15:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	21		5.0	5.0	mg/L			02/22/23 18:19	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	21		5.0	5.0	mg/L			02/22/23 18:19	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 18:19	1
Total Dissolved Solids (SM 2540C-2011)	1100		40	40	mg/L			02/22/23 12:05	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/23/23 12:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.52				SU			02/16/23 12:50	1

Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-27

Lab Sample ID: 680-230805-12

Date Collected: 02/16/23 15:25

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22	F1	1.0	0.20	mg/L			03/02/23 20:34	1
Fluoride	0.92		0.10	0.040	mg/L			03/02/23 20:34	1
Sulfate	29		1.0	0.40	mg/L			03/02/23 20:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00047	J	0.0020	0.00034	mg/L		02/21/23 10:20	02/22/23 20:01	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 10:20	02/22/23 20:01	1
Barium	0.0049	J	0.010	0.00089	mg/L		02/21/23 10:20	02/22/23 20:01	1
Beryllium	0.00046	J	0.0025	0.00020	mg/L		02/21/23 10:20	02/22/23 20:01	1
Boron	0.22		0.080	0.022	mg/L		02/21/23 10:20	02/23/23 16:13	1
Cadmium	0.000080	J	0.0025	0.000078	mg/L		02/21/23 10:20	02/22/23 20:01	1
Calcium	19	F1	0.50	0.14	mg/L		02/21/23 10:20	02/22/23 20:01	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 10:20	02/22/23 20:01	1
Cobalt	0.0013	J	0.0025	0.00022	mg/L		02/21/23 10:20	02/22/23 20:01	1
Iron	0.42	F1 F2	0.050	0.012	mg/L		02/21/23 10:20	02/23/23 16:13	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 10:20	02/22/23 20:01	1
Lithium	0.024		0.0050	0.0020	mg/L		02/21/23 10:20	02/22/23 20:01	1
Magnesium	3.2		0.50	0.023	mg/L		02/21/23 10:20	02/22/23 20:01	1
Manganese	0.43		0.0050	0.0022	mg/L		02/21/23 10:20	02/22/23 20:01	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/21/23 10:20	02/22/23 20:01	1
Potassium	2.0		0.50	0.044	mg/L		02/21/23 10:20	02/22/23 20:01	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/21/23 10:20	02/22/23 20:01	1
Sodium	15	F1	0.50	0.20	mg/L		02/21/23 10:20	02/22/23 20:01	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 10:20	02/22/23 20:01	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:57	02/22/23 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	35		5.0	5.0	mg/L			02/22/23 23:28	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	35		5.0	5.0	mg/L			02/22/23 23:28	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:28	1
Total Dissolved Solids (SM 2540C-2011)	160		40	40	mg/L			02/22/23 12:05	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/23/23 12:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.91				SU			02/16/23 15:25	1

Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-230805-13

Date Collected: 02/16/23 00:00

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.7		0.10	0.040	mg/L			03/02/23 21:13	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	280		5.0	1.0	mg/L			03/03/23 16:03	5
Sulfate	370		5.0	2.0	mg/L			03/03/23 16:03	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 10:20	02/22/23 20:45	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 10:20	02/22/23 20:45	1
Barium	0.0047	J	0.010	0.00089	mg/L		02/21/23 10:20	02/22/23 20:45	1
Beryllium	0.0076		0.0025	0.00020	mg/L		02/21/23 10:20	02/22/23 20:45	1
Boron	3.9		0.32	0.088	mg/L		02/21/23 10:20	02/23/23 16:58	4
Cadmium	0.00023	J	0.0025	0.000078	mg/L		02/21/23 10:20	02/22/23 20:45	1
Calcium	170		0.50	0.14	mg/L		02/21/23 10:20	02/22/23 20:45	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 10:20	02/22/23 20:45	1
Cobalt	0.0013	J	0.0025	0.00022	mg/L		02/21/23 10:20	02/22/23 20:45	1
Iron	1.5		0.20	0.048	mg/L		02/21/23 10:20	02/23/23 16:58	4
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 10:20	02/22/23 20:45	1
Lithium	0.17		0.0050	0.0020	mg/L		02/21/23 10:20	02/22/23 20:45	1
Magnesium	54		0.50	0.023	mg/L		02/21/23 10:20	02/22/23 20:45	1
Manganese	0.71		0.0050	0.0022	mg/L		02/21/23 10:20	02/22/23 20:45	1
Molybdenum	0.0057	J	0.015	0.00086	mg/L		02/21/23 10:20	02/22/23 20:45	1
Potassium	4.4		0.50	0.044	mg/L		02/21/23 10:20	02/22/23 20:45	1
Selenium	0.0012	J	0.0050	0.00099	mg/L		02/21/23 10:20	02/22/23 20:45	1
Sodium	51		0.50	0.20	mg/L		02/21/23 10:20	02/22/23 20:45	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 10:20	02/22/23 20:45	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	39		5.0	5.0	mg/L			02/22/23 23:37	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	39		5.0	5.0	mg/L			02/22/23 23:37	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:37	1
Total Dissolved Solids (SM 2540C-2011)	1100		40	40	mg/L			02/23/23 13:26	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/23/23 12:01	1

Client Sample ID: WAN-AP1-FD-03

Lab Sample ID: 680-230805-14

Date Collected: 02/16/23 00:00

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		1.0	0.20	mg/L			03/02/23 21:26	1

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Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-AP1-FD-03

Lab Sample ID: 680-230805-14

Date Collected: 02/16/23 00:00

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.14		0.10	0.040	mg/L			03/02/23 21:26	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	250		5.0	2.0	mg/L			03/03/23 16:16	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00080	J	0.0020	0.00034	mg/L		02/21/23 10:20	02/22/23 20:13	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 10:20	02/22/23 20:13	1
Barium	0.00098	J	0.010	0.00089	mg/L		02/21/23 10:20	02/22/23 20:13	1
Beryllium	0.0024	J	0.0025	0.00020	mg/L		02/21/23 10:20	02/22/23 20:13	1
Boron	2.7		0.32	0.088	mg/L		02/21/23 10:20	02/23/23 16:26	4
Cadmium	0.00057	J	0.0025	0.000078	mg/L		02/21/23 10:20	02/22/23 20:13	1
Calcium	90		0.50	0.14	mg/L		02/21/23 10:20	02/22/23 20:13	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 10:20	02/22/23 20:13	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/21/23 10:20	02/22/23 20:13	1
Iron	<0.048		0.20	0.048	mg/L		02/21/23 10:20	02/23/23 16:26	4
Lead	0.00036	J	0.0010	0.00021	mg/L		02/21/23 10:20	02/22/23 20:13	1
Lithium	0.010		0.0050	0.0020	mg/L		02/21/23 10:20	02/22/23 20:13	1
Magnesium	24		0.50	0.023	mg/L		02/21/23 10:20	02/22/23 20:13	1
Manganese	0.0084		0.0050	0.0022	mg/L		02/21/23 10:20	02/22/23 20:13	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/21/23 10:20	02/22/23 20:13	1
Potassium	9.4		0.50	0.044	mg/L		02/21/23 10:20	02/22/23 20:13	1
Selenium	0.0044	J	0.0050	0.00099	mg/L		02/21/23 10:20	02/22/23 20:13	1
Sodium	39		0.50	0.20	mg/L		02/21/23 10:20	02/22/23 20:13	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 10:20	02/22/23 20:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 16:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	10		5.0	5.0	mg/L			02/22/23 22:53	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	10		5.0	5.0	mg/L			02/22/23 22:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 22:53	1
Total Dissolved Solids (SM 2540C-2011)	620		40	40	mg/L			02/23/23 13:26	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/23/23 12:01	1

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-230805-15

Date Collected: 02/16/23 12:25

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			03/02/23 21:40	1
Fluoride	<0.040		0.10	0.040	mg/L			03/02/23 21:40	1

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Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-230805-15

Date Collected: 02/16/23 12:25

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.40		1.0	0.40	mg/L			03/02/23 21:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 10:20	02/22/23 20:21	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 10:20	02/22/23 20:21	1
Barium	<0.00089		0.010	0.00089	mg/L		02/21/23 10:20	02/22/23 20:21	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 10:20	02/22/23 20:21	1
Boron	<0.022		0.080	0.022	mg/L		02/21/23 10:20	02/23/23 16:34	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/21/23 10:20	02/22/23 20:21	1
Calcium	0.25	J	0.50	0.14	mg/L		02/21/23 10:20	02/22/23 20:21	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 10:20	02/22/23 20:21	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/21/23 10:20	02/22/23 20:21	1
Iron	<0.012		0.050	0.012	mg/L		02/21/23 10:20	02/23/23 16:34	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 10:20	02/22/23 20:21	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/21/23 10:20	02/22/23 20:21	1
Magnesium	<0.023		0.50	0.023	mg/L		02/21/23 10:20	02/22/23 20:21	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/21/23 10:20	02/22/23 20:21	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/21/23 10:20	02/22/23 20:21	1
Potassium	0.045	J	0.50	0.044	mg/L		02/21/23 10:20	02/22/23 20:21	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/21/23 10:20	02/22/23 20:21	1
Sodium	0.60		0.50	0.20	mg/L		02/21/23 10:20	02/22/23 20:21	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 10:20	02/22/23 20:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:05	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:05	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:05	1
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/23/23 13:26	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/23/23 12:01	1

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-230805-16

Date Collected: 02/16/23 15:55

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			03/02/23 21:53	1
Fluoride	<0.040		0.10	0.040	mg/L			03/02/23 21:53	1
Sulfate	<0.40		1.0	0.40	mg/L			03/02/23 21:53	1

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Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-230805-16

Date Collected: 02/16/23 15:55

Matrix: Water

Date Received: 02/18/23 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 09:52	02/22/23 19:24	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 09:52	02/22/23 19:24	1
Barium	<0.00089		0.010	0.00089	mg/L		02/21/23 09:52	02/22/23 19:24	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 19:24	1
Boron	<0.022		0.080	0.022	mg/L		02/21/23 09:52	02/24/23 16:58	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/21/23 09:52	02/22/23 19:24	1
Calcium	<0.14		0.50	0.14	mg/L		02/21/23 09:52	02/22/23 19:24	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 09:52	02/22/23 19:24	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/21/23 09:52	02/22/23 19:24	1
Iron	<0.012		0.050	0.012	mg/L		02/21/23 09:52	02/22/23 19:24	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 09:52	02/22/23 19:24	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 19:24	1
Magnesium	<0.023		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 19:24	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 19:24	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/21/23 09:52	02/22/23 19:24	1
Potassium	<0.044		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 19:24	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/21/23 09:52	02/22/23 19:24	1
Sodium	<0.20		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 19:24	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 09:52	02/22/23 19:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:13	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:13	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:13	1
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/23/23 13:26	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/23/23 12:01	1

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-230805-17

Date Collected: 02/16/23 09:10

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			03/02/23 22:06	1
Fluoride	<0.040		0.10	0.040	mg/L			03/02/23 22:06	1
Sulfate	<0.40		1.0	0.40	mg/L			03/02/23 22:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 09:52	02/22/23 19:36	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 09:52	02/22/23 19:36	1
Barium	<0.00089		0.010	0.00089	mg/L		02/21/23 09:52	02/22/23 19:36	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 19:36	1

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Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-230805-17

Date Collected: 02/16/23 09:10

Matrix: Water

Date Received: 02/18/23 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.022		0.080	0.022	mg/L		02/21/23 09:52	02/24/23 17:10	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/21/23 09:52	02/22/23 19:36	1
Calcium	<0.14		0.50	0.14	mg/L		02/21/23 09:52	02/22/23 19:36	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 09:52	02/22/23 19:36	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/21/23 09:52	02/22/23 19:36	1
Iron	<0.012		0.050	0.012	mg/L		02/21/23 09:52	02/22/23 19:36	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 09:52	02/22/23 19:36	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 19:36	1
Magnesium	<0.023		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 19:36	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 19:36	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/21/23 09:52	02/22/23 19:36	1
Potassium	<0.044		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 19:36	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/21/23 09:52	02/22/23 19:36	1
Sodium	<0.20		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 19:36	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 09:52	02/22/23 19:36	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 22:25	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 22:25	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 22:25	1
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/23/23 13:26	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/23/23 09:48	1

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-230805-18

Date Collected: 02/16/23 16:15

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			03/02/23 22:19	1
Fluoride	<0.040		0.10	0.040	mg/L			03/02/23 22:19	1
Sulfate	<0.40		1.0	0.40	mg/L			03/02/23 22:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 09:52	02/22/23 19:40	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 09:52	02/22/23 19:40	1
Barium	<0.00089		0.010	0.00089	mg/L		02/21/23 09:52	02/22/23 19:40	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 19:40	1
Boron	<0.022		0.080	0.022	mg/L		02/21/23 09:52	02/24/23 17:14	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/21/23 09:52	02/22/23 19:40	1
Calcium	<0.14		0.50	0.14	mg/L		02/21/23 09:52	02/22/23 19:40	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 09:52	02/22/23 19:40	1

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Client Sample Results

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

Job ID: 680-230805-1

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-230805-18

Date Collected: 02/16/23 16:15

Matrix: Water

Date Received: 02/18/23 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/21/23 09:52	02/22/23 19:40	1
Iron	<0.012		0.050	0.012	mg/L		02/21/23 09:52	02/22/23 19:40	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 09:52	02/22/23 19:40	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 19:40	1
Magnesium	<0.023		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 19:40	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 19:40	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/21/23 09:52	02/22/23 19:40	1
Potassium	<0.044		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 19:40	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/21/23 09:52	02/22/23 19:40	1
Sodium	<0.20		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 19:40	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 09:52	02/22/23 19:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:09	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:09	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:09	1
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/23/23 13:26	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/23/23 09:48	1

QC Sample Results

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

Job ID: 680-230805-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-764879/63
Matrix: Water
Analysis Batch: 764879

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/25/23 01:16	1
Fluoride	<0.040		0.10	0.040	mg/L			02/25/23 01:16	1
Sulfate	<0.40		1.0	0.40	mg/L			02/25/23 01:16	1

Lab Sample ID: LCS 680-764879/64
Matrix: Water
Analysis Batch: 764879

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.2		mg/L		102	90 - 110
Fluoride	2.00	2.04		mg/L		102	90 - 110
Sulfate	10.0	9.79		mg/L		98	90 - 110

Lab Sample ID: LCSD 680-764879/65
Matrix: Water
Analysis Batch: 764879

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.3		mg/L		103	90 - 110	0	15
Fluoride	2.00	2.04		mg/L		102	90 - 110	0	15
Sulfate	10.0	9.82		mg/L		98	90 - 110	0	15

Lab Sample ID: 680-230805-2 MS
Matrix: Water
Analysis Batch: 764879

Client Sample ID: WAN-WGWC-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1.3		10.0	11.0		mg/L		96	80 - 120
Fluoride	0.11		2.00	2.12		mg/L		100	80 - 120
Sulfate	1.8		10.0	11.4		mg/L		96	80 - 120

Lab Sample ID: 680-230805-2 MSD
Matrix: Water
Analysis Batch: 764879

Client Sample ID: WAN-WGWC-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1.3		10.0	11.0		mg/L		97	80 - 120	1	15
Fluoride	0.11		2.00	2.13		mg/L		101	80 - 120	1	15
Sulfate	1.8		10.0	11.5		mg/L		97	80 - 120	1	15

Lab Sample ID: MB 680-765703/2
Matrix: Water
Analysis Batch: 765703

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			03/02/23 09:48	1
Fluoride	<0.040		0.10	0.040	mg/L			03/02/23 09:48	1
Sulfate	<0.40		1.0	0.40	mg/L			03/02/23 09:48	1

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QC Sample Results

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

Job ID: 680-230805-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-765703/4
Matrix: Water
Analysis Batch: 765703

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.3		mg/L		103	90 - 110
Fluoride	2.00	2.02		mg/L		101	90 - 110
Sulfate	10.0	10.2		mg/L		102	90 - 110

Lab Sample ID: LCSD 680-765703/5
Matrix: Water
Analysis Batch: 765703

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.3		mg/L		103	90 - 110	0	15
Fluoride	2.00	2.02		mg/L		101	90 - 110	0	15
Sulfate	10.0	10.2		mg/L		102	90 - 110	1	15

Lab Sample ID: 680-230724-D-1 MS
Matrix: Water
Analysis Batch: 765703

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	13		10.0	23.6		mg/L		102	80 - 120
Fluoride	0.052	J	2.00	2.07		mg/L		101	80 - 120
Sulfate	25		10.0	35.6		mg/L		104	80 - 120

Lab Sample ID: 680-230724-D-1 MSD
Matrix: Water
Analysis Batch: 765703

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13		10.0	23.3		mg/L		99	80 - 120	1	15
Fluoride	0.052	J	2.00	1.99		mg/L		97	80 - 120	4	15
Sulfate	25		10.0	35.3		mg/L		101	80 - 120	1	15

Lab Sample ID: MB 680-765704/33
Matrix: Water
Analysis Batch: 765704

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			03/02/23 16:37	1
Fluoride	<0.040		0.10	0.040	mg/L			03/02/23 16:37	1
Sulfate	<0.40		1.0	0.40	mg/L			03/02/23 16:37	1

Lab Sample ID: LCS 680-765704/34
Matrix: Water
Analysis Batch: 765704

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.3		mg/L		103	90 - 110
Fluoride	2.00	2.01		mg/L		100	90 - 110
Sulfate	10.0	9.53		mg/L		95	90 - 110

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QC Sample Results

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

Job ID: 680-230805-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 680-765704/35
Matrix: Water
Analysis Batch: 765704

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.3		mg/L		103	90 - 110	0	15
Fluoride	2.00	2.01		mg/L		101	90 - 110	0	15
Sulfate	10.0	9.60		mg/L		96	90 - 110	1	15

Lab Sample ID: 680-230805-12 MS
Matrix: Water
Analysis Batch: 765704

Client Sample ID: WAN-WGWC-27
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	22	F1	10.0	35.1	F1	mg/L		128	80 - 120
Fluoride	0.92		2.00	3.03		mg/L		106	80 - 120
Sulfate	29		10.0	38.6		mg/L		100	80 - 120

Lab Sample ID: 680-230805-12 MSD
Matrix: Water
Analysis Batch: 765704

Client Sample ID: WAN-WGWC-27
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	22	F1	10.0	34.9	F1	mg/L		125	80 - 120	1	15
Fluoride	0.92		2.00	2.99		mg/L		104	80 - 120	1	15
Sulfate	29		10.0	38.3		mg/L		97	80 - 120	1	15

Lab Sample ID: MB 680-765879/2
Matrix: Water
Analysis Batch: 765879

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			03/03/23 09:54	1
Fluoride	<0.040		0.10	0.040	mg/L			03/03/23 09:54	1
Sulfate	<0.40		1.0	0.40	mg/L			03/03/23 09:54	1

Lab Sample ID: LCS 680-765879/4
Matrix: Water
Analysis Batch: 765879

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.3		mg/L		103	90 - 110
Fluoride	2.00	2.06		mg/L		103	90 - 110
Sulfate	10.0	10.3		mg/L		103	90 - 110

Lab Sample ID: LCSD 680-765879/5
Matrix: Water
Analysis Batch: 765879

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.3		mg/L		103	90 - 110	0	15
Fluoride	2.00	2.07		mg/L		104	90 - 110	0	15
Sulfate	10.0	10.4		mg/L		104	90 - 110	1	15

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QC Sample Results

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

Job ID: 680-230805-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-230854-J-1 MS
Matrix: Water
Analysis Batch: 765879

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25		10.0	34.2		mg/L		95	80 - 120
Fluoride	0.54		2.00	2.54		mg/L		100	80 - 120
Sulfate	45		10.0	53.9	4	mg/L		90	80 - 120

Lab Sample ID: 680-230854-J-1 MSD
Matrix: Water
Analysis Batch: 765879

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25		10.0	34.3		mg/L		96	80 - 120	0	15
Fluoride	0.54		2.00	2.53		mg/L		99	80 - 120	0	15
Sulfate	45		10.0	53.9	4	mg/L		90	80 - 120	0	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-764270/1-A
Matrix: Water
Analysis Batch: 764596

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 09:52	02/22/23 18:23	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 09:52	02/22/23 18:23	1
Barium	<0.00089		0.010	0.00089	mg/L		02/21/23 09:52	02/22/23 18:23	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 18:23	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/21/23 09:52	02/22/23 18:23	1
Calcium	<0.14		0.50	0.14	mg/L		02/21/23 09:52	02/22/23 18:23	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 09:52	02/22/23 18:23	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/21/23 09:52	02/22/23 18:23	1
Iron	<0.012		0.050	0.012	mg/L		02/21/23 09:52	02/22/23 18:23	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 09:52	02/22/23 18:23	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 18:23	1
Magnesium	<0.023		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 18:23	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 18:23	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/21/23 09:52	02/22/23 18:23	1
Potassium	<0.044		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 18:23	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/21/23 09:52	02/22/23 18:23	1
Sodium	<0.20		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 18:23	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 09:52	02/22/23 18:23	1

Lab Sample ID: MB 680-764270/1-A
Matrix: Water
Analysis Batch: 764981

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0248	J	0.080	0.022	mg/L		02/21/23 09:52	02/24/23 15:57	1

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QC Sample Results

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

Job ID: 680-230805-1

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

Lab Sample ID: LCS 680-764270/2-A
Matrix: Water
Analysis Batch: 764596

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Antimony	0.0500	0.0493		mg/L		99	80 - 120	
Arsenic	0.100	0.102		mg/L		102	80 - 120	
Barium	0.100	0.0976		mg/L		98	80 - 120	
Beryllium	0.0500	0.0488		mg/L		98	80 - 120	
Cadmium	0.0500	0.0492		mg/L		98	80 - 120	
Calcium	5.00	5.14		mg/L		103	80 - 120	
Chromium	0.100	0.0952		mg/L		95	80 - 120	
Cobalt	0.0500	0.0510		mg/L		102	80 - 120	
Iron	5.00	5.31		mg/L		106	80 - 120	
Lead	0.505	0.497		mg/L		98	80 - 120	
Lithium	0.500	0.493		mg/L		99	80 - 120	
Magnesium	5.01	4.92		mg/L		98	80 - 120	
Manganese	0.400	0.409		mg/L		102	80 - 120	
Molybdenum	0.100	0.103		mg/L		103	80 - 120	
Potassium	6.97	6.98		mg/L		100	80 - 120	
Selenium	0.100	0.104		mg/L		104	80 - 120	
Sodium	5.05	5.26		mg/L		104	80 - 120	
Thallium	0.0500	0.0477		mg/L		95	80 - 120	

Lab Sample ID: LCS 680-764270/2-A
Matrix: Water
Analysis Batch: 764981

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Boron	0.200	0.218		mg/L		109	80 - 120	

Lab Sample ID: 680-230804-E-2-B MS
Matrix: Water
Analysis Batch: 764596

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Antimony	0.0037		0.0500	0.0539		mg/L		101	75 - 125	
Arsenic	0.083		0.100	0.182		mg/L		99	75 - 125	
Barium	0.075		0.100	0.168		mg/L		93	75 - 125	
Beryllium	0.00022	J	0.0500	0.0497		mg/L		99	75 - 125	
Cadmium	0.00025	J	0.0500	0.0495		mg/L		99	75 - 125	
Chromium	0.0039		0.100	0.0994		mg/L		95	75 - 125	
Cobalt	0.00052	J	0.0500	0.0519		mg/L		103	75 - 125	
Iron	0.34		5.00	5.58		mg/L		105	75 - 125	
Lead	0.0018		0.505	0.509		mg/L		100	75 - 125	
Lithium	0.18		0.500	0.684		mg/L		102	75 - 125	
Magnesium	11		5.01	15.5		mg/L		85	75 - 125	
Manganese	0.012		0.400	0.428		mg/L		104	75 - 125	
Molybdenum	0.47		0.100	0.543	4	mg/L		71	75 - 125	
Potassium	33		6.97	38.6	4	mg/L		74	75 - 125	
Selenium	0.0013	J	0.100	0.107		mg/L		105	75 - 125	
Sodium	28		5.05	31.7	4	mg/L		76	75 - 125	
Thallium	0.00097	J	0.0500	0.0505		mg/L		99	75 - 125	

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QC Sample Results

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

Job ID: 680-230805-1

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

Lab Sample ID: 680-230804-E-2-B MS ^100
Matrix: Water
Analysis Batch: 764981

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Boron	49	B	0.200	47.6	4	mg/L		-574		75 - 125
Calcium	1300		5.00	1230	4	mg/L		-1031		75 - 125

Lab Sample ID: 680-230804-E-2-C MSD
Matrix: Water
Analysis Batch: 764596

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Antimony	0.0037		0.0500	0.0582		mg/L		109		75 - 125	8	20
Arsenic	0.083		0.100	0.194		mg/L		111		75 - 125	7	20
Barium	0.075		0.100	0.177		mg/L		102		75 - 125	5	20
Beryllium	0.00022	J	0.0500	0.0510		mg/L		102		75 - 125	3	20
Cadmium	0.00025	J	0.0500	0.0525		mg/L		104		75 - 125	6	20
Chromium	0.0039		0.100	0.104		mg/L		101		75 - 125	5	20
Cobalt	0.00052	J	0.0500	0.0553		mg/L		110		75 - 125	6	20
Iron	0.34		5.00	5.81		mg/L		110		75 - 125	4	20
Lead	0.0018		0.505	0.546		mg/L		108		75 - 125	7	20
Lithium	0.18		0.500	0.702		mg/L		105		75 - 125	3	20
Magnesium	11		5.01	16.3		mg/L		101		75 - 125	5	20
Manganese	0.012		0.400	0.452		mg/L		110		75 - 125	6	20
Molybdenum	0.47		0.100	0.577	4	mg/L		105		75 - 125	6	20
Potassium	33		6.97	40.3	4	mg/L		98		75 - 125	4	20
Selenium	0.0013	J	0.100	0.116		mg/L		115		75 - 125	8	20
Sodium	28		5.05	33.1	4	mg/L		103		75 - 125	4	20
Thallium	0.00097	J	0.0500	0.0543		mg/L		107		75 - 125	7	20

Lab Sample ID: 680-230804-E-2-C MSD ^100
Matrix: Water
Analysis Batch: 764981

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Boron	49	B	0.200	47.3	4	mg/L		-711		75 - 125	1	20
Calcium	1300		5.00	1220	4	mg/L		-1072		75 - 125	0	20

Lab Sample ID: MB 680-764281/1-A
Matrix: Water
Analysis Batch: 764596

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764281

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Antimony	<0.00034		0.0020	0.00034	mg/L		02/21/23 10:20	02/22/23 19:52		1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/21/23 10:20	02/22/23 19:52		1
Barium	<0.00089		0.010	0.00089	mg/L		02/21/23 10:20	02/22/23 19:52		1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 10:20	02/22/23 19:52		1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/21/23 10:20	02/22/23 19:52		1
Calcium	<0.14		0.50	0.14	mg/L		02/21/23 10:20	02/22/23 19:52		1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/21/23 10:20	02/22/23 19:52		1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/21/23 10:20	02/22/23 19:52		1
Lead	<0.00021		0.0010	0.00021	mg/L		02/21/23 10:20	02/22/23 19:52		1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/21/23 10:20	02/22/23 19:52		1

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QC Sample Results

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

Job ID: 680-230805-1

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

Lab Sample ID: MB 680-764281/1-A
Matrix: Water
Analysis Batch: 764596

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	<0.023		0.50	0.023	mg/L		02/21/23 10:20	02/22/23 19:52	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/21/23 10:20	02/22/23 19:52	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/21/23 10:20	02/22/23 19:52	1
Potassium	<0.044		0.50	0.044	mg/L		02/21/23 10:20	02/22/23 19:52	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/21/23 10:20	02/22/23 19:52	1
Sodium	<0.20		0.50	0.20	mg/L		02/21/23 10:20	02/22/23 19:52	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/21/23 10:20	02/22/23 19:52	1

Lab Sample ID: MB 680-764281/1-A
Matrix: Water
Analysis Batch: 764800

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.022		0.080	0.022	mg/L		02/21/23 10:20	02/23/23 16:05	1
Iron	<0.012		0.050	0.012	mg/L		02/21/23 10:20	02/23/23 16:05	1

Lab Sample ID: LCS 680-764281/2-A
Matrix: Water
Analysis Batch: 764596

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0493		mg/L		99	80 - 120
Arsenic	0.100	0.104		mg/L		104	80 - 120
Barium	0.100	0.0981		mg/L		98	80 - 120
Beryllium	0.0500	0.0495		mg/L		99	80 - 120
Cadmium	0.0500	0.0482		mg/L		96	80 - 120
Calcium	5.00	5.01		mg/L		100	80 - 120
Chromium	0.100	0.0957		mg/L		96	80 - 120
Cobalt	0.0500	0.0519		mg/L		104	80 - 120
Lead	0.505	0.496		mg/L		98	80 - 120
Lithium	0.500	0.498		mg/L		100	80 - 120
Magnesium	5.01	4.95		mg/L		99	80 - 120
Manganese	0.400	0.417		mg/L		104	80 - 120
Molybdenum	0.100	0.104		mg/L		104	80 - 120
Potassium	6.97	7.04		mg/L		101	80 - 120
Selenium	0.100	0.107		mg/L		107	80 - 120
Sodium	5.05	5.35		mg/L		106	80 - 120
Thallium	0.0500	0.0479		mg/L		96	80 - 120

Lab Sample ID: LCS 680-764281/2-A
Matrix: Water
Analysis Batch: 764800

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.200	0.225		mg/L		112	80 - 120
Iron	5.00	5.14		mg/L		103	80 - 120

QC Sample Results

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

Job ID: 680-230805-1

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

Lab Sample ID: 680-230805-12 MS
Matrix: Water
Analysis Batch: 764596

Client Sample ID: WAN-WGWC-27
Prep Type: Total Recoverable
Prep Batch: 764281

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits
Antimony	0.00047	J	0.0500	0.0509		mg/L		101	75 - 125	
Arsenic	<0.00086		0.100	0.102		mg/L		102	75 - 125	
Barium	0.0049	J	0.100	0.104		mg/L		99	75 - 125	
Beryllium	0.00046	J	0.0500	0.0495		mg/L		98	75 - 125	
Cadmium	0.000080	J	0.0500	0.0506		mg/L		101	75 - 125	
Calcium	19	F1	5.00	22.5	F1	mg/L		66	75 - 125	
Chromium	<0.0012		0.100	0.0946		mg/L		95	75 - 125	
Cobalt	0.0013	J	0.0500	0.0543		mg/L		106	75 - 125	
Lead	<0.00021		0.505	0.502		mg/L		99	75 - 125	
Lithium	0.024		0.500	0.502		mg/L		95	75 - 125	
Magnesium	3.2		5.01	7.94		mg/L		95	75 - 125	
Manganese	0.43		0.400	0.829		mg/L		100	75 - 125	
Molybdenum	<0.00086		0.100	0.104		mg/L		104	75 - 125	
Potassium	2.0		6.97	8.85		mg/L		99	75 - 125	
Selenium	<0.00099		0.100	0.104		mg/L		104	75 - 125	
Sodium	15	F1	5.05	18.4	F1	mg/L		72	75 - 125	
Thallium	<0.00026		0.0500	0.0480		mg/L		96	75 - 125	

Lab Sample ID: 680-230805-12 MS
Matrix: Water
Analysis Batch: 764800

Client Sample ID: WAN-WGWC-27
Prep Type: Total Recoverable
Prep Batch: 764281

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits
Boron	0.22		0.200	0.407		mg/L		93	75 - 125	
Iron	0.42	F1 F2	5.00	7.05	F1	mg/L		133	75 - 125	

Lab Sample ID: 680-230805-12 MSD
Matrix: Water
Analysis Batch: 764596

Client Sample ID: WAN-WGWC-27
Prep Type: Total Recoverable
Prep Batch: 764281

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Antimony	0.00047	J	0.0500	0.0531		mg/L		105	75 - 125	4	20	
Arsenic	<0.00086		0.100	0.108		mg/L		108	75 - 125	6	20	
Barium	0.0049	J	0.100	0.108		mg/L		103	75 - 125	4	20	
Beryllium	0.00046	J	0.0500	0.0532		mg/L		106	75 - 125	7	20	
Cadmium	0.000080	J	0.0500	0.0511		mg/L		102	75 - 125	1	20	
Calcium	19	F1	5.00	24.2		mg/L		100	75 - 125	7	20	
Chromium	<0.0012		0.100	0.0978		mg/L		98	75 - 125	3	20	
Cobalt	0.0013	J	0.0500	0.0564		mg/L		110	75 - 125	4	20	
Lead	<0.00021		0.505	0.529		mg/L		105	75 - 125	5	20	
Lithium	0.024		0.500	0.537		mg/L		102	75 - 125	7	20	
Magnesium	3.2		5.01	8.41		mg/L		105	75 - 125	6	20	
Manganese	0.43		0.400	0.876		mg/L		112	75 - 125	6	20	
Molybdenum	<0.00086		0.100	0.111		mg/L		111	75 - 125	6	20	
Potassium	2.0		6.97	9.35		mg/L		106	75 - 125	6	20	
Selenium	<0.00099		0.100	0.111		mg/L		111	75 - 125	7	20	
Sodium	15	F1	5.05	19.9		mg/L		102	75 - 125	8	20	
Thallium	<0.00026		0.0500	0.0504		mg/L		101	75 - 125	5	20	

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QC Sample Results

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

Job ID: 680-230805-1

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

Lab Sample ID: 680-230805-12 MSD
Matrix: Water
Analysis Batch: 764800

Client Sample ID: WAN-WGWC-27
Prep Type: Total Recoverable
Prep Batch: 764281

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Boron	0.22		0.200	0.416		mg/L		98	75 - 125	2	20
Iron	0.42	F1 F2	5.00	5.69	F2	mg/L		105	75 - 125	21	20

Lab Sample ID: MB 680-768711/1-A
Matrix: Water
Analysis Batch: 768945

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 768711

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	<0.0012		0.0020	0.0012	mg/L		03/21/23 05:25	03/21/23 23:54	1

Lab Sample ID: LCS 680-768711/2-A
Matrix: Water
Analysis Batch: 768945

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 768711

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Chromium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: 680-232198-B-5-E MS
Matrix: Water
Analysis Batch: 768945

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 768711

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				Limits
Chromium	<0.0012		0.100	0.104		mg/L		104	75 - 125

Lab Sample ID: 680-232198-B-5-F MSD
Matrix: Water
Analysis Batch: 768945

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 768711

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chromium	<0.0012		0.100	0.100		mg/L		100	75 - 125	4	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-764334/1-A
Matrix: Water
Analysis Batch: 764581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 764334

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:51	02/22/23 15:14	1

Lab Sample ID: LCS 680-764334/2-A
Matrix: Water
Analysis Batch: 764581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 764334

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Mercury	0.00250	0.00246		mg/L		98	80 - 120

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QC Sample Results

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

Job ID: 680-230805-1

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

Lab Sample ID: 680-230729-B-3-B MS
Matrix: Water
Analysis Batch: 764581

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 764334

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080		0.00100	0.000957		mg/L		96	80 - 120

Lab Sample ID: 680-230729-B-3-C MSD
Matrix: Water
Analysis Batch: 764581

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 764334

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080		0.00100	0.000992		mg/L		99	80 - 120	4	20

Lab Sample ID: MB 680-764336/1-A
Matrix: Water
Analysis Batch: 764581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 764336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/21/23 13:57	02/22/23 11:54	1

Lab Sample ID: LCS 680-764336/2-A
Matrix: Water
Analysis Batch: 764581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 764336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00266		mg/L		107	80 - 120

Lab Sample ID: 680-230805-12 MS
Matrix: Water
Analysis Batch: 764581

Client Sample ID: WAN-WGWC-27
Prep Type: Total/NA
Prep Batch: 764336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080		0.00100	0.000984		mg/L		98	80 - 120

Lab Sample ID: 680-230805-12 MSD
Matrix: Water
Analysis Batch: 764581

Client Sample ID: WAN-WGWC-27
Prep Type: Total/NA
Prep Batch: 764336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080		0.00100	0.000998		mg/L		100	80 - 120	1	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-764663/4
Matrix: Water
Analysis Batch: 764663

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	<5.0		5.0	5.0	mg/L			02/22/23 15:05	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/22/23 15:05	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/22/23 15:05	1

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QC Sample Results

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

Job ID: 680-230805-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 680-764663/6
Matrix: Water
Analysis Batch: 764663

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	250	251		mg/L		101	90 - 112

Lab Sample ID: LCSD 680-764663/31
Matrix: Water
Analysis Batch: 764663

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	255		mg/L		102	90 - 112	1	30

Lab Sample ID: 680-230805-1 DU
Matrix: Water
Analysis Batch: 764663

Client Sample ID: WAN-WGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	9.7		6.88	F5	mg/L		34	30
Bicarbonate Alkalinity as CaCO3	9.7		6.88	F5	mg/L		34	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Lab Sample ID: MB 680-764666/4
Matrix: Water
Analysis Batch: 764666

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	<5.0		5.0	5.0	mg/L			02/22/23 20:28	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/22/23 20:28	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/22/23 20:28	1

Lab Sample ID: LCS 680-764666/6
Matrix: Water
Analysis Batch: 764666

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	250	251		mg/L		100	90 - 112

Lab Sample ID: LCSD 680-764666/31
Matrix: Water
Analysis Batch: 764666

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	254		mg/L		102	90 - 112	1	30

Lab Sample ID: 680-230805-14 DU
Matrix: Water
Analysis Batch: 764666

Client Sample ID: WAN-AP1-FD-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	10		7.34		mg/L		30	30
Bicarbonate Alkalinity as CaCO3	10		7.34		mg/L		30	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

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QC Sample Results

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

Job ID: 680-230805-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-764476/1
Matrix: Water
Analysis Batch: 764476

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			02/22/23 12:05	1

Lab Sample ID: LCS 680-764476/2
Matrix: Water
Analysis Batch: 764476

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	2340	2420		mg/L		103	80 - 120

Lab Sample ID: LCSD 680-764476/3
Matrix: Water
Analysis Batch: 764476

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2340	2400		mg/L		102	80 - 120	1	25

Lab Sample ID: 680-230805-11 DU
Matrix: Water
Analysis Batch: 764476

Client Sample ID: WAN-WGWC-26D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1100		1040		mg/L		2	5

Lab Sample ID: MB 680-764716/1
Matrix: Water
Analysis Batch: 764716

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			02/23/23 13:26	1

Lab Sample ID: LCS 680-764716/2
Matrix: Water
Analysis Batch: 764716

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	2340	2410		mg/L		103	80 - 120

Lab Sample ID: LCSD 680-764716/3
Matrix: Water
Analysis Batch: 764716

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2340	2360		mg/L		101	80 - 120	2	25

Lab Sample ID: 680-230845-F-1 DU
Matrix: Water
Analysis Batch: 764716

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	410		396		mg/L		3	5

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QC Sample Results

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

Job ID: 680-230805-1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-764636/1
Matrix: Water
Analysis Batch: 764636

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			02/23/23 09:48	1

Lab Sample ID: LCS 680-764636/2
Matrix: Water
Analysis Batch: 764636

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	9.93		mg/L		99	75 - 125

Lab Sample ID: LCSD 680-764636/3
Matrix: Water
Analysis Batch: 764636

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	10.0	9.96		mg/L		100	75 - 125	0	30

Lab Sample ID: 680-230781-N-1 MS
Matrix: Water
Analysis Batch: 764636

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.81		6.50	7.13		mg/L		110	75 - 125

Lab Sample ID: 680-230781-N-1 MSD
Matrix: Water
Analysis Batch: 764636

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.81		6.50	7.13		mg/L		110	75 - 125	0	30

Lab Sample ID: 680-230775-J-11 DU
Matrix: Water
Analysis Batch: 764636

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	0.94		1.20		mg/L		25	30

Lab Sample ID: MB 680-764693/1
Matrix: Water
Analysis Batch: 764693

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			02/23/23 12:01	1

Lab Sample ID: LCS 680-764693/2
Matrix: Water
Analysis Batch: 764693

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	9.61		mg/L		96	75 - 125

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QC Sample Results

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

Job ID: 680-230805-1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: LCSD 680-764693/3
Matrix: Water
Analysis Batch: 764693

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	10.0	9.70		mg/L		97	75 - 125	1	30

Lab Sample ID: 680-230805-8 MS
Matrix: Water
Analysis Batch: 764693

Client Sample ID: WAN-WGWC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.83		6.50	7.38		mg/L		114	75 - 125		

Lab Sample ID: 680-230805-8 MSD
Matrix: Water
Analysis Batch: 764693

Client Sample ID: WAN-WGWC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.83		6.50	7.38		mg/L		114	75 - 125	0	30

Lab Sample ID: 680-230805-5 DU
Matrix: Water
Analysis Batch: 764693

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	<0.81		<0.81		mg/L		NC	30

QC Association Summary

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

Job ID: 680-230805-1

HPLC/IC

Analysis Batch: 764879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-2	WAN-WGWC-10	Total/NA	Water	300.0-1993 R2.1	
680-230805-3	WAN-WGWC-11	Total/NA	Water	300.0-1993 R2.1	
680-230805-4	WAN-WGWC-12	Total/NA	Water	300.0-1993 R2.1	
680-230805-5	WAN-WGWC-13	Total/NA	Water	300.0-1993 R2.1	
680-230805-6	WAN-WGWC-14A	Total/NA	Water	300.0-1993 R2.1	
680-230805-7	WAN-WGWC-17	Total/NA	Water	300.0-1993 R2.1	
680-230805-8	WAN-WGWC-19	Total/NA	Water	300.0-1993 R2.1	
680-230805-9	WAN-WGWC-20	Total/NA	Water	300.0-1993 R2.1	
MB 680-764879/63	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-764879/64	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-764879/65	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-230805-2 MS	WAN-WGWC-10	Total/NA	Water	300.0-1993 R2.1	
680-230805-2 MSD	WAN-WGWC-10	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 765703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-1	WAN-WGWC-8	Total/NA	Water	300.0-1993 R2.1	
680-230805-10	WAN-WGWC-21	Total/NA	Water	300.0-1993 R2.1	
MB 680-765703/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-765703/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-765703/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-230724-D-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-230724-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 765704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-11	WAN-WGWC-26D	Total/NA	Water	300.0-1993 R2.1	
680-230805-12	WAN-WGWC-27	Total/NA	Water	300.0-1993 R2.1	
680-230805-13	WAN-AP1-FD-02	Total/NA	Water	300.0-1993 R2.1	
680-230805-14	WAN-AP1-FD-03	Total/NA	Water	300.0-1993 R2.1	
680-230805-15	WAN-AP1-FB-08	Total/NA	Water	300.0-1993 R2.1	
680-230805-16	WAN-AP1-FB-09	Total/NA	Water	300.0-1993 R2.1	
680-230805-17	WAN-AP1-EB-02	Total/NA	Water	300.0-1993 R2.1	
680-230805-18	WAN-AP1-EB-03	Total/NA	Water	300.0-1993 R2.1	
MB 680-765704/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-765704/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-765704/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-230805-12 MS	WAN-WGWC-27	Total/NA	Water	300.0-1993 R2.1	
680-230805-12 MSD	WAN-WGWC-27	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 765879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-1 - DL	WAN-WGWC-8	Total/NA	Water	300.0-1993 R2.1	
680-230805-10 - DL	WAN-WGWC-21	Total/NA	Water	300.0-1993 R2.1	
680-230805-13 - DL	WAN-AP1-FD-02	Total/NA	Water	300.0-1993 R2.1	
680-230805-14 - DL	WAN-AP1-FD-03	Total/NA	Water	300.0-1993 R2.1	
MB 680-765879/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-765879/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-765879/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-230854-J-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-230854-J-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

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QC Association Summary

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

Job ID: 680-230805-1

Metals

Prep Batch: 764270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-6	WAN-WGWC-14A	Total Recoverable	Water	3005A	
680-230805-9	WAN-WGWC-20	Total Recoverable	Water	3005A	
680-230805-10	WAN-WGWC-21	Total Recoverable	Water	3005A	
680-230805-11	WAN-WGWC-26D	Total Recoverable	Water	3005A	
680-230805-16	WAN-AP1-FB-09	Total Recoverable	Water	3005A	
680-230805-17	WAN-AP1-EB-02	Total Recoverable	Water	3005A	
680-230805-18	WAN-AP1-EB-03	Total Recoverable	Water	3005A	
MB 680-764270/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-764270/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-230804-E-2-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-230804-E-2-B MS ^100	Matrix Spike	Total Recoverable	Water	3005A	
680-230804-E-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
680-230804-E-2-C MSD ^100	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 764281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-1	WAN-WGWC-8	Total Recoverable	Water	3005A	
680-230805-2	WAN-WGWC-10	Total Recoverable	Water	3005A	
680-230805-3	WAN-WGWC-11	Total Recoverable	Water	3005A	
680-230805-4	WAN-WGWC-12	Total Recoverable	Water	3005A	
680-230805-5	WAN-WGWC-13	Total Recoverable	Water	3005A	
680-230805-7	WAN-WGWC-17	Total Recoverable	Water	3005A	
680-230805-8	WAN-WGWC-19	Total Recoverable	Water	3005A	
680-230805-12	WAN-WGWC-27	Total Recoverable	Water	3005A	
680-230805-13	WAN-AP1-FD-02	Total Recoverable	Water	3005A	
680-230805-14	WAN-AP1-FD-03	Total Recoverable	Water	3005A	
680-230805-15	WAN-AP1-FB-08	Total Recoverable	Water	3005A	
MB 680-764281/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-764281/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-230805-12 MS	WAN-WGWC-27	Total Recoverable	Water	3005A	
680-230805-12 MSD	WAN-WGWC-27	Total Recoverable	Water	3005A	

Prep Batch: 764334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-1	WAN-WGWC-8	Total/NA	Water	7470A	
680-230805-2	WAN-WGWC-10	Total/NA	Water	7470A	
680-230805-3	WAN-WGWC-11	Total/NA	Water	7470A	
680-230805-4	WAN-WGWC-12	Total/NA	Water	7470A	
680-230805-5	WAN-WGWC-13	Total/NA	Water	7470A	
680-230805-6	WAN-WGWC-14A	Total/NA	Water	7470A	
680-230805-7	WAN-WGWC-17	Total/NA	Water	7470A	
680-230805-8	WAN-WGWC-19	Total/NA	Water	7470A	
680-230805-9	WAN-WGWC-20	Total/NA	Water	7470A	
680-230805-10	WAN-WGWC-21	Total/NA	Water	7470A	
680-230805-11	WAN-WGWC-26D	Total/NA	Water	7470A	
680-230805-13	WAN-AP1-FD-02	Total/NA	Water	7470A	
680-230805-14	WAN-AP1-FD-03	Total/NA	Water	7470A	
680-230805-15	WAN-AP1-FB-08	Total/NA	Water	7470A	
680-230805-16	WAN-AP1-FB-09	Total/NA	Water	7470A	
680-230805-17	WAN-AP1-EB-02	Total/NA	Water	7470A	
680-230805-18	WAN-AP1-EB-03	Total/NA	Water	7470A	

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QC Association Summary

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

Job ID: 680-230805-1

Metals (Continued)

Prep Batch: 764334 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-764334/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-764334/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-230729-B-3-B MS	Matrix Spike	Total/NA	Water	7470A	
680-230729-B-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 764336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-12	WAN-WGWC-27	Total/NA	Water	7470A	
MB 680-764336/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-764336/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-230805-12 MS	WAN-WGWC-27	Total/NA	Water	7470A	
680-230805-12 MSD	WAN-WGWC-27	Total/NA	Water	7470A	

Analysis Batch: 764581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-1	WAN-WGWC-8	Total/NA	Water	7470A	764334
680-230805-2	WAN-WGWC-10	Total/NA	Water	7470A	764334
680-230805-3	WAN-WGWC-11	Total/NA	Water	7470A	764334
680-230805-4	WAN-WGWC-12	Total/NA	Water	7470A	764334
680-230805-5	WAN-WGWC-13	Total/NA	Water	7470A	764334
680-230805-6	WAN-WGWC-14A	Total/NA	Water	7470A	764334
680-230805-7	WAN-WGWC-17	Total/NA	Water	7470A	764334
680-230805-8	WAN-WGWC-19	Total/NA	Water	7470A	764334
680-230805-9	WAN-WGWC-20	Total/NA	Water	7470A	764334
680-230805-10	WAN-WGWC-21	Total/NA	Water	7470A	764334
680-230805-11	WAN-WGWC-26D	Total/NA	Water	7470A	764334
680-230805-12	WAN-WGWC-27	Total/NA	Water	7470A	764336
680-230805-13	WAN-AP1-FD-02	Total/NA	Water	7470A	764334
680-230805-14	WAN-AP1-FD-03	Total/NA	Water	7470A	764334
680-230805-15	WAN-AP1-FB-08	Total/NA	Water	7470A	764334
680-230805-16	WAN-AP1-FB-09	Total/NA	Water	7470A	764334
680-230805-17	WAN-AP1-EB-02	Total/NA	Water	7470A	764334
680-230805-18	WAN-AP1-EB-03	Total/NA	Water	7470A	764334
MB 680-764334/1-A	Method Blank	Total/NA	Water	7470A	764334
MB 680-764336/1-A	Method Blank	Total/NA	Water	7470A	764336
LCS 680-764334/2-A	Lab Control Sample	Total/NA	Water	7470A	764334
LCS 680-764336/2-A	Lab Control Sample	Total/NA	Water	7470A	764336
680-230729-B-3-B MS	Matrix Spike	Total/NA	Water	7470A	764334
680-230729-B-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	764334
680-230805-12 MS	WAN-WGWC-27	Total/NA	Water	7470A	764336
680-230805-12 MSD	WAN-WGWC-27	Total/NA	Water	7470A	764336

Analysis Batch: 764596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-1	WAN-WGWC-8	Total Recoverable	Water	6020B	764281
680-230805-2	WAN-WGWC-10	Total Recoverable	Water	6020B	764281
680-230805-3	WAN-WGWC-11	Total Recoverable	Water	6020B	764281
680-230805-4	WAN-WGWC-12	Total Recoverable	Water	6020B	764281
680-230805-5	WAN-WGWC-13	Total Recoverable	Water	6020B	764281
680-230805-6	WAN-WGWC-14A	Total Recoverable	Water	6020B	764270
680-230805-7	WAN-WGWC-17	Total Recoverable	Water	6020B	764281

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QC Association Summary

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

Job ID: 680-230805-1

Metals (Continued)

Analysis Batch: 764596 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-8	WAN-WGWC-19	Total Recoverable	Water	6020B	764281
680-230805-9	WAN-WGWC-20	Total Recoverable	Water	6020B	764270
680-230805-10	WAN-WGWC-21	Total Recoverable	Water	6020B	764270
680-230805-11	WAN-WGWC-26D	Total Recoverable	Water	6020B	764270
680-230805-12	WAN-WGWC-27	Total Recoverable	Water	6020B	764281
680-230805-13	WAN-AP1-FD-02	Total Recoverable	Water	6020B	764281
680-230805-14	WAN-AP1-FD-03	Total Recoverable	Water	6020B	764281
680-230805-15	WAN-AP1-FB-08	Total Recoverable	Water	6020B	764281
680-230805-16	WAN-AP1-FB-09	Total Recoverable	Water	6020B	764270
680-230805-17	WAN-AP1-EB-02	Total Recoverable	Water	6020B	764270
680-230805-18	WAN-AP1-EB-03	Total Recoverable	Water	6020B	764270
MB 680-764270/1-A	Method Blank	Total Recoverable	Water	6020B	764270
MB 680-764281/1-A	Method Blank	Total Recoverable	Water	6020B	764281
LCS 680-764270/2-A	Lab Control Sample	Total Recoverable	Water	6020B	764270
LCS 680-764281/2-A	Lab Control Sample	Total Recoverable	Water	6020B	764281
680-230804-E-2-B MS	Matrix Spike	Total Recoverable	Water	6020B	764270
680-230804-E-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	764270
680-230805-12 MS	WAN-WGWC-27	Total Recoverable	Water	6020B	764281
680-230805-12 MSD	WAN-WGWC-27	Total Recoverable	Water	6020B	764281

Analysis Batch: 764800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-1	WAN-WGWC-8	Total Recoverable	Water	6020B	764281
680-230805-2	WAN-WGWC-10	Total Recoverable	Water	6020B	764281
680-230805-3	WAN-WGWC-11	Total Recoverable	Water	6020B	764281
680-230805-4	WAN-WGWC-12	Total Recoverable	Water	6020B	764281
680-230805-5	WAN-WGWC-13	Total Recoverable	Water	6020B	764281
680-230805-7	WAN-WGWC-17	Total Recoverable	Water	6020B	764281
680-230805-8	WAN-WGWC-19	Total Recoverable	Water	6020B	764281
680-230805-12	WAN-WGWC-27	Total Recoverable	Water	6020B	764281
680-230805-13	WAN-AP1-FD-02	Total Recoverable	Water	6020B	764281
680-230805-14	WAN-AP1-FD-03	Total Recoverable	Water	6020B	764281
680-230805-15	WAN-AP1-FB-08	Total Recoverable	Water	6020B	764281
MB 680-764281/1-A	Method Blank	Total Recoverable	Water	6020B	764281
LCS 680-764281/2-A	Lab Control Sample	Total Recoverable	Water	6020B	764281
680-230805-12 MS	WAN-WGWC-27	Total Recoverable	Water	6020B	764281
680-230805-12 MSD	WAN-WGWC-27	Total Recoverable	Water	6020B	764281

Analysis Batch: 764981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-6	WAN-WGWC-14A	Total Recoverable	Water	6020B	764270
680-230805-9	WAN-WGWC-20	Total Recoverable	Water	6020B	764270
680-230805-10	WAN-WGWC-21	Total Recoverable	Water	6020B	764270
680-230805-11	WAN-WGWC-26D	Total Recoverable	Water	6020B	764270
680-230805-16	WAN-AP1-FB-09	Total Recoverable	Water	6020B	764270
680-230805-17	WAN-AP1-EB-02	Total Recoverable	Water	6020B	764270
680-230805-18	WAN-AP1-EB-03	Total Recoverable	Water	6020B	764270
MB 680-764270/1-A	Method Blank	Total Recoverable	Water	6020B	764270
LCS 680-764270/2-A	Lab Control Sample	Total Recoverable	Water	6020B	764270
680-230804-E-2-B MS ^100	Matrix Spike	Total Recoverable	Water	6020B	764270
680-230804-E-2-C MSD ^100	Matrix Spike Duplicate	Total Recoverable	Water	6020B	764270

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QC Association Summary

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

Job ID: 680-230805-1

Metals

Prep Batch: 768711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-5	WAN-WGWC-13	Total Recoverable	Water	3005A	
MB 680-768711/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768711/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232198-B-5-E MS	Matrix Spike	Total Recoverable	Water	3005A	
680-232198-B-5-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 768945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-5	WAN-WGWC-13	Total Recoverable	Water	6020B	768711
MB 680-768711/1-A	Method Blank	Total Recoverable	Water	6020B	768711
LCS 680-768711/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768711
680-232198-B-5-E MS	Matrix Spike	Total Recoverable	Water	6020B	768711
680-232198-B-5-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	768711

General Chemistry

Analysis Batch: 764476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-1	WAN-WGWC-8	Total/NA	Water	2540C-2011	
680-230805-2	WAN-WGWC-10	Total/NA	Water	2540C-2011	
680-230805-3	WAN-WGWC-11	Total/NA	Water	2540C-2011	
680-230805-4	WAN-WGWC-12	Total/NA	Water	2540C-2011	
680-230805-5	WAN-WGWC-13	Total/NA	Water	2540C-2011	
680-230805-6	WAN-WGWC-14A	Total/NA	Water	2540C-2011	
680-230805-7	WAN-WGWC-17	Total/NA	Water	2540C-2011	
680-230805-8	WAN-WGWC-19	Total/NA	Water	2540C-2011	
680-230805-9	WAN-WGWC-20	Total/NA	Water	2540C-2011	
680-230805-10	WAN-WGWC-21	Total/NA	Water	2540C-2011	
680-230805-11	WAN-WGWC-26D	Total/NA	Water	2540C-2011	
680-230805-12	WAN-WGWC-27	Total/NA	Water	2540C-2011	
MB 680-764476/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-764476/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-764476/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-230805-11 DU	WAN-WGWC-26D	Total/NA	Water	2540C-2011	

Analysis Batch: 764636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-17	WAN-AP1-EB-02	Total/NA	Water	4500 S2 F-2011	
680-230805-18	WAN-AP1-EB-03	Total/NA	Water	4500 S2 F-2011	
MB 680-764636/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-764636/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-764636/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-230781-N-1 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
680-230781-N-1 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
680-230775-J-11 DU	Duplicate	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 764663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-1	WAN-WGWC-8	Total/NA	Water	2320B-2011	
680-230805-2	WAN-WGWC-10	Total/NA	Water	2320B-2011	
680-230805-3	WAN-WGWC-11	Total/NA	Water	2320B-2011	

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QC Association Summary

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

Job ID: 680-230805-1

General Chemistry (Continued)

Analysis Batch: 764663 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-4	WAN-WGWC-12	Total/NA	Water	2320B-2011	
680-230805-5	WAN-WGWC-13	Total/NA	Water	2320B-2011	
680-230805-6	WAN-WGWC-14A	Total/NA	Water	2320B-2011	
680-230805-7	WAN-WGWC-17	Total/NA	Water	2320B-2011	
680-230805-8	WAN-WGWC-19	Total/NA	Water	2320B-2011	
680-230805-10	WAN-WGWC-21	Total/NA	Water	2320B-2011	
680-230805-11	WAN-WGWC-26D	Total/NA	Water	2320B-2011	
MB 680-764663/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-764663/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-764663/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-230805-1 DU	WAN-WGWC-8	Total/NA	Water	2320B-2011	

Analysis Batch: 764666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-9	WAN-WGWC-20	Total/NA	Water	2320B-2011	
680-230805-12	WAN-WGWC-27	Total/NA	Water	2320B-2011	
680-230805-13	WAN-AP1-FD-02	Total/NA	Water	2320B-2011	
680-230805-14	WAN-AP1-FD-03	Total/NA	Water	2320B-2011	
680-230805-15	WAN-AP1-FB-08	Total/NA	Water	2320B-2011	
680-230805-16	WAN-AP1-FB-09	Total/NA	Water	2320B-2011	
680-230805-17	WAN-AP1-EB-02	Total/NA	Water	2320B-2011	
680-230805-18	WAN-AP1-EB-03	Total/NA	Water	2320B-2011	
MB 680-764666/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-764666/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-764666/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-230805-14 DU	WAN-AP1-FD-03	Total/NA	Water	2320B-2011	

Analysis Batch: 764693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-1	WAN-WGWC-8	Total/NA	Water	4500 S2 F-2011	
680-230805-2	WAN-WGWC-10	Total/NA	Water	4500 S2 F-2011	
680-230805-3	WAN-WGWC-11	Total/NA	Water	4500 S2 F-2011	
680-230805-4	WAN-WGWC-12	Total/NA	Water	4500 S2 F-2011	
680-230805-5	WAN-WGWC-13	Total/NA	Water	4500 S2 F-2011	
680-230805-6	WAN-WGWC-14A	Total/NA	Water	4500 S2 F-2011	
680-230805-7	WAN-WGWC-17	Total/NA	Water	4500 S2 F-2011	
680-230805-8	WAN-WGWC-19	Total/NA	Water	4500 S2 F-2011	
680-230805-9	WAN-WGWC-20	Total/NA	Water	4500 S2 F-2011	
680-230805-10	WAN-WGWC-21	Total/NA	Water	4500 S2 F-2011	
680-230805-11	WAN-WGWC-26D	Total/NA	Water	4500 S2 F-2011	
680-230805-12	WAN-WGWC-27	Total/NA	Water	4500 S2 F-2011	
680-230805-13	WAN-AP1-FD-02	Total/NA	Water	4500 S2 F-2011	
680-230805-14	WAN-AP1-FD-03	Total/NA	Water	4500 S2 F-2011	
680-230805-15	WAN-AP1-FB-08	Total/NA	Water	4500 S2 F-2011	
680-230805-16	WAN-AP1-FB-09	Total/NA	Water	4500 S2 F-2011	
MB 680-764693/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-764693/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-764693/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-230805-8 MS	WAN-WGWC-19	Total/NA	Water	4500 S2 F-2011	
680-230805-8 MSD	WAN-WGWC-19	Total/NA	Water	4500 S2 F-2011	
680-230805-5 DU	WAN-WGWC-13	Total/NA	Water	4500 S2 F-2011	

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QC Association Summary

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

Job ID: 680-230805-1

General Chemistry

Analysis Batch: 764716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-13	WAN-AP1-FD-02	Total/NA	Water	2540C-2011	
680-230805-14	WAN-AP1-FD-03	Total/NA	Water	2540C-2011	
680-230805-15	WAN-AP1-FB-08	Total/NA	Water	2540C-2011	
680-230805-16	WAN-AP1-FB-09	Total/NA	Water	2540C-2011	
680-230805-17	WAN-AP1-EB-02	Total/NA	Water	2540C-2011	
680-230805-18	WAN-AP1-EB-03	Total/NA	Water	2540C-2011	
MB 680-764716/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-764716/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-764716/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-230845-F-1 DU	Duplicate	Total/NA	Water	2540C-2011	

Field Service / Mobile Lab

Analysis Batch: 764382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-1	WAN-WGWC-8	Total/NA	Water	Field Sampling	
680-230805-2	WAN-WGWC-10	Total/NA	Water	Field Sampling	
680-230805-3	WAN-WGWC-11	Total/NA	Water	Field Sampling	
680-230805-4	WAN-WGWC-12	Total/NA	Water	Field Sampling	
680-230805-5	WAN-WGWC-13	Total/NA	Water	Field Sampling	
680-230805-6	WAN-WGWC-14A	Total/NA	Water	Field Sampling	
680-230805-7	WAN-WGWC-17	Total/NA	Water	Field Sampling	
680-230805-8	WAN-WGWC-19	Total/NA	Water	Field Sampling	
680-230805-9	WAN-WGWC-20	Total/NA	Water	Field Sampling	
680-230805-10	WAN-WGWC-21	Total/NA	Water	Field Sampling	
680-230805-11	WAN-WGWC-26D	Total/NA	Water	Field Sampling	
680-230805-12	WAN-WGWC-27	Total/NA	Water	Field Sampling	

Lab Chronicle

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-230805-1

Date Collected: 02/16/23 14:52

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	765703	03/02/23 12:52	UI	EET SAV
Instrument ID: CICK										
Total/NA	Analysis	300.0-1993 R2.1	DL	5	5 mL	5 mL	765879	03/03/23 15:23	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 20:41	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B		4			764800	02/23/23 16:54	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A		1			764581	02/22/23 15:48	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2320B-2011		1			764663	02/22/23 17:20	PG	EET SAV
Instrument ID: MANTECH 2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	764476	02/22/23 12:05	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	764693	02/23/23 12:01	JAS	EET SAV
Instrument ID: NoEquip										
Total/NA	Analysis	Field Sampling		1			764382	02/16/23 14:52	P1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-230805-2

Date Collected: 02/16/23 13:18

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	764879	02/25/23 01:55	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 20:49	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764800	02/23/23 17:02	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A		1			764581	02/22/23 16:09	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2320B-2011		1			764663	02/22/23 16:52	PG	EET SAV
Instrument ID: MANTECH 2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	764476	02/22/23 12:05	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	764693	02/23/23 12:01	JAS	EET SAV
Instrument ID: NoEquip										

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Lab Chronicle

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-230805-2

Date Collected: 02/16/23 13:18

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			764382	02/16/23 13:18	P1C	EET SAV

Client Sample ID: WAN-WGWC-11

Lab Sample ID: 680-230805-3

Date Collected: 02/16/23 11:55

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764879	02/25/23 02:35	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764596	02/22/23 20:29	BWR	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764800	02/23/23 16:42	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 15:45	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764663	02/22/23 16:44	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	764476	02/22/23 12:05	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	300 mL	300 mL	764693	02/23/23 12:01	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/16/23 11:55	P1C	EET SAV

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-230805-4

Date Collected: 02/16/23 10:55

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764879	02/25/23 02:48	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764596	02/22/23 20:53	BWR	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764800	02/23/23 17:06	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 16:13	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764663	02/22/23 17:36	PG	EET SAV

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Lab Chronicle

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-230805-4

Date Collected: 02/16/23 10:55

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	764476	02/22/23 12:05	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	764693	02/23/23 12:01	JAS	EET SAV
		Instrument ID: NoEquip								
Total/NA	Analysis	Field Sampling		1			764382	02/16/23 10:55	P1C	EET SAV
		Instrument ID: NOEQUIP								

Client Sample ID: WAN-WGWC-13

Lab Sample ID: 680-230805-5

Date Collected: 02/16/23 15:25

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	764879	02/25/23 03:02	UI	EET SAV
		Instrument ID: CICK								
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 20:17	BWR	EET SAV
		Instrument ID: ICPMSC								
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764800	02/23/23 16:30	BWR	EET SAV
		Instrument ID: ICPMSC								
Total Recoverable	Prep	3005A			25 mL	125 mL	768711	03/21/23 05:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			768945	03/22/23 00:29	BWR	EET SAV
		Instrument ID: ICPMSD								
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A		1			764581	02/22/23 16:20	BJB	EET SAV
		Instrument ID: QuickTrace2								
Total/NA	Analysis	2320B-2011		1			764663	02/22/23 17:44	PG	EET SAV
		Instrument ID: MANTECH 2								
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	764476	02/22/23 12:05	PG	EET SAV
		Instrument ID: NOEQUIP								
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	764693	02/23/23 12:01	JAS	EET SAV
		Instrument ID: NoEquip								
Total/NA	Analysis	Field Sampling		1			764382	02/16/23 15:25	P1C	EET SAV
		Instrument ID: NOEQUIP								

Client Sample ID: WAN-WGWC-14A

Lab Sample ID: 680-230805-6

Date Collected: 02/16/23 13:30

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	764879	02/25/23 03:15	UI	EET SAV
		Instrument ID: CICK								
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 19:20	BWR	EET SAV
		Instrument ID: ICPMSC								

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Lab Chronicle

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-14A

Lab Sample ID: 680-230805-6

Date Collected: 02/16/23 13:30

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764981	02/24/23 16:53	BWR	EET SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A		1			764581	02/22/23 16:16	BJB	EET SAV
		Instrument ID: QuickTrace2								
Total/NA	Analysis	2320B-2011		1			764663	02/22/23 17:52	PG	EET SAV
		Instrument ID: MANTECH 2								
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	764476	02/22/23 12:05	PG	EET SAV
		Instrument ID: NOEQUIP								
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	764693	02/23/23 12:01	JAS	EET SAV
		Instrument ID: NoEquip								
Total/NA	Analysis	Field Sampling		1			764382	02/16/23 13:30	P1C	EET SAV
		Instrument ID: NOEQUIP								

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-230805-7

Date Collected: 02/16/23 11:02

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	764879	02/25/23 03:28	UI	EET SAV
		Instrument ID: CICK								
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 20:25	BWR	EET SAV
		Instrument ID: ICPMSC								
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764800	02/23/23 16:38	BWR	EET SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A		1			764581	02/22/23 15:59	BJB	EET SAV
		Instrument ID: QuickTrace2								
Total/NA	Analysis	2320B-2011		1			764663	02/22/23 18:00	PG	EET SAV
		Instrument ID: MANTECH 2								
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	764476	02/22/23 12:05	PG	EET SAV
		Instrument ID: NOEQUIP								
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	764693	02/23/23 12:01	JAS	EET SAV
		Instrument ID: NoEquip								
Total/NA	Analysis	Field Sampling		1			764382	02/16/23 11:02	P1C	EET SAV
		Instrument ID: NOEQUIP								

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Lab Chronicle

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-19

Lab Sample ID: 680-230805-8

Date Collected: 02/16/23 13:09

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	764879	02/25/23 03:41	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764596	02/22/23 20:57	BWR	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764800	02/23/23 17:10	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 16:33	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764663	02/22/23 18:28	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	764476	02/22/23 12:05	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	300 mL	300 mL	764693	02/23/23 12:01	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/16/23 13:09	P1C	EET SAV

Client Sample ID: WAN-WGWC-20

Lab Sample ID: 680-230805-9

Date Collected: 02/16/23 10:05

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		5	5 mL	5 mL	764879	02/25/23 03:54	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764596	02/22/23 19:28	BWR	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		10			764981	02/24/23 17:02	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 16:40	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764666	02/22/23 23:20	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	50 mL	200 mL	764476	02/22/23 12:05	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	290 mL	290 mL	764693	02/23/23 12:01	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/16/23 10:05	P1C	EET SAV

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Lab Chronicle

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-21

Lab Sample ID: 680-230805-10

Date Collected: 02/16/23 16:07

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	765703	03/02/23 13:06	UI	EET SAV
Instrument ID: CICK										
Total/NA	Analysis	300.0-1993 R2.1	DL	5	5 mL	5 mL	765879	03/03/23 15:36	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 19:32	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764981	02/24/23 17:06	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A		1			764581	02/22/23 16:26	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2320B-2011		1			764663	02/22/23 18:10	PG	EET SAV
Instrument ID: MANTECH 2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	764476	02/22/23 12:05	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	764693	02/23/23 12:01	JAS	EET SAV
Instrument ID: NoEquip										
Total/NA	Analysis	Field Sampling		1			764382	02/16/23 16:07	P1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-26D

Lab Sample ID: 680-230805-11

Date Collected: 02/16/23 12:50

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		2	5 mL	5 mL	765704	03/02/23 20:21	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 19:16	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		10			764981	02/24/23 16:49	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A		1			764581	02/22/23 15:52	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2320B-2011		1			764663	02/22/23 18:19	PG	EET SAV
Instrument ID: MANTECH 2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	764476	02/22/23 12:05	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	764693	02/23/23 12:01	JAS	EET SAV
Instrument ID: NoEquip										

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Lab Chronicle

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

Job ID: 680-230805-1

Client Sample ID: WAN-WGWC-26D
Date Collected: 02/16/23 12:50
Date Received: 02/18/23 06:30

Lab Sample ID: 680-230805-11
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	Field Sampling		1			764382	02/16/23 12:50	P1C	EET SAV

Client Sample ID: WAN-WGWC-27
Date Collected: 02/16/23 15:25
Date Received: 02/18/23 06:30

Lab Sample ID: 680-230805-12
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	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	765704	03/02/23 20:34	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764596	02/22/23 20:01	BWR	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764800	02/23/23 16:13	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764336	02/21/23 13:57	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 12:00	BJB	EET SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH 2		1			764666	02/22/23 23:28	PG	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	50 mL	200 mL	764476	02/22/23 12:05	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011 Instrument ID: NoEquip		1	300 mL	300 mL	764693	02/23/23 12:01	JAS	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			764382	02/16/23 15:25	P1C	EET SAV

Client Sample ID: WAN-AP1-FD-02
Date Collected: 02/16/23 00:00
Date Received: 02/18/23 06:30

Lab Sample ID: 680-230805-13
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	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	765704	03/02/23 21:13	UI	EET SAV
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK	DL	5	5 mL	5 mL	765879	03/03/23 16:03	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			764596	02/22/23 20:45	BWR	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		4			764800	02/23/23 16:58	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			764581	02/22/23 15:55	BJB	EET SAV

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Lab Chronicle

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

Job ID: 680-230805-1

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-230805-13

Date Collected: 02/16/23 00:00

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2320B-2011		1			764666	02/22/23 23:37	PG	EET SAV
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	764716	02/23/23 13:26	PG	EET SAV
		Instrument ID: NOEQUIP								
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	764693	02/23/23 12:01	JAS	EET SAV
		Instrument ID: NoEquip								

Client Sample ID: WAN-AP1-FD-03

Lab Sample ID: 680-230805-14

Date Collected: 02/16/23 00:00

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	765704	03/02/23 21:26	UI	EET SAV
		Instrument ID: CICK								
Total/NA	Analysis	300.0-1993 R2.1	DL	5	5 mL	5 mL	765879	03/03/23 16:16	UI	EET SAV
		Instrument ID: CICK								
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 20:13	BWR	EET SAV
		Instrument ID: ICPMSC								
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B		4			764800	02/23/23 16:26	BWR	EET SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A		1			764581	02/22/23 16:54	BJB	EET SAV
		Instrument ID: QuickTrace2								
Total/NA	Analysis	2320B-2011		1			764666	02/22/23 22:53	PG	EET SAV
		Instrument ID: MANTECH 2								
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	764716	02/23/23 13:26	PG	EET SAV
		Instrument ID: NOEQUIP								
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	764693	02/23/23 12:01	JAS	EET SAV
		Instrument ID: NoEquip								

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-230805-15

Date Collected: 02/16/23 12:25

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	765704	03/02/23 21:40	UI	EET SAV
		Instrument ID: CICK								
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 20:21	BWR	EET SAV
		Instrument ID: ICPMSC								
Total Recoverable	Prep	3005A			25 mL	125 mL	764281	02/21/23 10:20	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764800	02/23/23 16:34	BWR	EET SAV
		Instrument ID: ICPMSC								

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Lab Chronicle

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

Job ID: 680-230805-1

Client Sample ID: WAN-AP1-FB-08
Date Collected: 02/16/23 12:25
Date Received: 02/18/23 06:30

Lab Sample ID: 680-230805-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A		1			764581	02/22/23 16:23	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2320B-2011		1			764666	02/22/23 23:05	PG	EET SAV
Instrument ID: MANTECH 2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	764716	02/23/23 13:26	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	764693	02/23/23 12:01	JAS	EET SAV
Instrument ID: NoEquip										

Client Sample ID: WAN-AP1-FB-09
Date Collected: 02/16/23 15:55
Date Received: 02/18/23 06:30

Lab Sample ID: 680-230805-16
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	300.0-1993 R2.1		1	5 mL	5 mL	765704	03/02/23 21:53	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 19:24	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764981	02/24/23 16:58	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A		1			764581	02/22/23 16:30	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2320B-2011		1			764666	02/22/23 23:13	PG	EET SAV
Instrument ID: MANTECH 2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	764716	02/23/23 13:26	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	764693	02/23/23 12:01	JAS	EET SAV
Instrument ID: NoEquip										

Client Sample ID: WAN-AP1-EB-02
Date Collected: 02/16/23 09:10
Date Received: 02/18/23 06:30

Lab Sample ID: 680-230805-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	765704	03/02/23 22:06	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 19:36	BWR	EET SAV
Instrument ID: ICPMSC										

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Lab Chronicle

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

Job ID: 680-230805-1

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-230805-17

Date Collected: 02/16/23 09:10

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764981	02/24/23 17:10	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A		1			764581	02/22/23 16:37	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2320B-2011		1			764666	02/22/23 22:25	PG	EET SAV
Instrument ID: MANTECH 2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	764716	02/23/23 13:26	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	764636	02/23/23 09:48	JAS	EET SAV
Instrument ID: NoEquip										

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-230805-18

Date Collected: 02/16/23 16:15

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	765704	03/02/23 22:19	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 19:40	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764981	02/24/23 17:14	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	764334	02/21/23 13:51	BCB	EET SAV
Total/NA	Analysis	7470A		1			764581	02/22/23 16:51	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2320B-2011		1			764666	02/22/23 23:09	PG	EET SAV
Instrument ID: MANTECH 2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	764716	02/23/23 13:26	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	764636	02/23/23 09:48	JAS	EET SAV
Instrument ID: NoEquip										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

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

Job ID: 680-230805-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-23
Georgia	State	E87052	06-30-23

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Method Summary

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

Job ID: 680-230805-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
4500 S2 F-2011	Sulfide, Total	SM	EET SAV
Field Sampling	Field Sampling	EPA	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency


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

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

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client Information Client Contact: <i>David Fuller</i> SCS Contacts: <i>770 594 5998</i>		Lab PM: <i>David Fuller</i> E-Mail: <i>David.Fuller@et.eurofins.us</i>		Carrier Tracking No(s): Page: <i>1 of 2</i>	
Company: <i>GA Power</i> Address: <i>241 Ralph McGill Blvd SE</i> City: <i>Atlanta</i> State: <i>GA</i> Zip: <i>30308</i> Phone: <i>404-506-7116(Tel)</i> Email: <i>68027766</i> SCS Contacts / Geosyntec Contacts: Project Name: <i>Plant Wansley Ash Pond</i> Site:		Due Date Requested: TAT Requested (days): <i>Standard</i> Lab Project #: <i>68027766</i> PO #: Project #: SSO#: Analysis Requested:		Job #: Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other: Task Code: WAN-CCR-ASSMT-2023S1 Special Instructions/Note: Full APP III and APP IV	
Sample Identification: WAN- <i>WGWC-8</i> WAN- <i>WGWC-16</i> WAN- <i>WGWC-11</i> WAN- <i>WGWC-12</i> WAN- <i>WGWC-13</i> WAN- <i>WGWC-14A</i> WAN- <i>WGWC-17</i> WAN- <i>WGWC-19</i> WAN- <i>WGWC-20</i> WAN- <i>WGWC-21</i> WAN- <i>WGWC-26D</i>		Sample Date (mm/dd/yy): 02/16/23 02/16/23 02/16/23 02/16/23 02/16/23 02/16/23 02/16/23 02/16/23 02/16/23 02/16/23		Sample Time (hh:mm): 1452 1318 1155 1055 1525 1336 1102 1309 1005 1607 1250	
Sample Type (C=Comp, G=grab): G G G G G G G G G G G		Matrix (Background, water, WQ-quality control): WG WG WG WG WG WG WG WG WG WG WG		Preservation Code: WG WG WG WG WG WG WG WG WG WG WG	
Field Filtered Sample (Yes or No): N N N N N N N N N N N		Perform MS/MSD (Yes or No): N N N N N N N N N N N		App III Metals B, Ca: ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	
App IV Metals (EPA 60207A70): ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		Cl, F, SO & TDS (EPA 300 & SM 2540C): ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		Radium 226 & 228 (SW-846 9315/9320): ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	
Major Ions - Sulfide: ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		Major Ions - Carbonate, Bicarbonate, Total Alkalinity: ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		Major Ions - Iron, Magnesium, Potassium, Sodium: ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	
Total Number of Containers: <i>8</i> pH: <i>5.22</i> pH: <i>6.39</i> pH: <i>5.67</i> pH: <i>6.61</i> pH: <i>6.27</i> pH: <i>5.40</i> pH: <i>6.28</i> pH: <i>6.80</i> pH: <i>5.17</i> pH: <i>6.92</i> pH: <i>5.52</i>		Chain of Custody: <i>680-230805</i> 		Total Number of Containers: <i>8</i> pH: <i>5.22</i> pH: <i>6.39</i> pH: <i>5.67</i> pH: <i>6.61</i> pH: <i>6.27</i> pH: <i>5.40</i> pH: <i>6.28</i> pH: <i>6.80</i> pH: <i>5.17</i> pH: <i>6.92</i> pH: <i>5.52</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 _____ Months	
Relinquished by: <i>David Fuller</i> Relinquished by: <i>David Fuller</i> Relinquished by:		Date/Time: 2/17/23 1427 2/17/23 1437 2/17/23 1437		Date/Time: 2-17-23 14:27 2/18/23 0630 2/18/23 0630	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 1-1/1 0-1/0.1 0-2/0.9 0-6/0.6 1-4/1.4		Method of Shipment: Company:	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-230805-1

Login Number: 230805

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/31/2023 4:21:20 PM

JOB DESCRIPTION

Plant Wansley - Ash Pond

JOB NUMBER

680-230805-2

Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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

Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

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

Job ID: 680-230805-2

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

Sample Summary

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

Job ID: 680-230805-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-230805-1	WAN-WGWC-8	Water	02/16/23 14:52	02/18/23 06:30
680-230805-2	WAN-WGWC-10	Water	02/16/23 13:18	02/18/23 06:30
680-230805-3	WAN-WGWC-11	Water	02/16/23 11:55	02/18/23 06:30
680-230805-4	WAN-WGWC-12	Water	02/16/23 10:55	02/18/23 06:30
680-230805-5	WAN-WGWC-13	Water	02/16/23 15:25	02/18/23 06:30
680-230805-6	WAN-WGWC-14A	Water	02/16/23 13:30	02/18/23 06:30
680-230805-7	WAN-WGWC-17	Water	02/16/23 11:02	02/18/23 06:30
680-230805-8	WAN-WGWC-19	Water	02/16/23 13:09	02/18/23 06:30
680-230805-9	WAN-WGWC-20	Water	02/16/23 10:05	02/18/23 06:30
680-230805-10	WAN-WGWC-21	Water	02/16/23 16:07	02/18/23 06:30
680-230805-11	WAN-WGWC-26D	Water	02/16/23 12:50	02/18/23 06:30
680-230805-12	WAN-WGWC-27	Water	02/16/23 15:25	02/18/23 06:30
680-230805-13	WAN-AP1-FD-02	Water	02/16/23 00:00	02/18/23 06:30
680-230805-14	WAN-AP1-FD-03	Water	02/16/23 00:00	02/18/23 06:30
680-230805-15	WAN-AP1-FB-08	Water	02/16/23 12:25	02/18/23 06:30
680-230805-16	WAN-AP1-FB-09	Water	02/16/23 15:55	02/18/23 06:30
680-230805-17	WAN-AP1-EB-02	Water	02/16/23 09:10	02/18/23 06:30
680-230805-18	WAN-AP1-EB-03	Water	02/16/23 16:15	02/18/23 06:30



Case Narrative

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

Job ID: 680-230805-2

Job ID: 680-230805-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-230805-2

Receipt

The samples were received on 2/18/2023 6:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.1°C, 0.6°C, 0.9°C, 1.1°C and 1.4°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 Prep Batch 160-602054 Insufficient sample volume was available to perform a sample duplicate for the following samples: WAN-WGWC-8 (680-230805-1), WAN-WGWC-10 (680-230805-2), WAN-WGWC-11 (680-230805-3), WAN-WGWC-12 (680-230805-4), WAN-WGWC-13 (680-230805-5), WAN-WGWC-14A (680-230805-6), WAN-WGWC-17 (680-230805-7), WAN-WGWC-19 (680-230805-8), WAN-WGWC-20 (680-230805-9), WAN-WGWC-21 (680-230805-10), WAN-WGWC-26D (680-230805-11), WAN-WGWC-27 (680-230805-12), WAN-AP1-FD-02 (680-230805-13), WAN-AP1-FD-03 (680-230805-14), WAN-AP1-FB-08 (680-230805-15), WAN-AP1-FB-09 (680-230805-16), WAN-AP1-EB-02 (680-230805-17) and WAN-AP1-EB-03 (680-230805-18). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315_Ra226: Radium-226 batch 602054 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. WAN-WGWC-8 (680-230805-1), WAN-WGWC-10 (680-230805-2), WAN-WGWC-11 (680-230805-3), WAN-WGWC-12 (680-230805-4), WAN-WGWC-13 (680-230805-5), WAN-WGWC-14A (680-230805-6), WAN-WGWC-17 (680-230805-7), WAN-WGWC-19 (680-230805-8), WAN-WGWC-20 (680-230805-9), WAN-WGWC-21 (680-230805-10), WAN-WGWC-26D (680-230805-11), WAN-WGWC-27 (680-230805-12), WAN-AP1-FD-02 (680-230805-13), WAN-AP1-FD-03 (680-230805-14), WAN-AP1-FB-08 (680-230805-15), WAN-AP1-FB-09 (680-230805-16), WAN-AP1-EB-02 (680-230805-17), WAN-AP1-EB-03 (680-230805-18), (LCS 160-602054/2-A), (LCSD 160-602054/22-A) and (MB 160-602054/1-A)

Method 9320_Ra228: Radium-228 Prep Batch 160-602055 Insufficient sample volume was available to perform a sample duplicate for the following samples: WAN-WGWC-8 (680-230805-1), WAN-WGWC-10 (680-230805-2), WAN-WGWC-11 (680-230805-3), WAN-WGWC-12 (680-230805-4), WAN-WGWC-13 (680-230805-5), WAN-WGWC-14A (680-230805-6), WAN-WGWC-17 (680-230805-7), WAN-WGWC-19 (680-230805-8), WAN-WGWC-20 (680-230805-9), WAN-WGWC-21 (680-230805-10), WAN-WGWC-26D (680-230805-11), WAN-WGWC-27 (680-230805-12), WAN-AP1-FD-02 (680-230805-13), WAN-AP1-FD-03 (680-230805-14), WAN-AP1-FB-08 (680-230805-15), WAN-AP1-FB-09 (680-230805-16), WAN-AP1-EB-02 (680-230805-17) and WAN-AP1-EB-03 (680-230805-18). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 602055 The LCS/LCSD recovered at (129% & 131%). The limits in our LIMS system set at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS/LCSD are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS passes, no further action is required (LCS 160-602055/2-A) and (LCSD 160-602055/22-A)

Method 9320_Ra228: Radium-228 batch 602055 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. WAN-WGWC-8 (680-230805-1), WAN-WGWC-10 (680-230805-2), WAN-WGWC-11 (680-230805-3), WAN-WGWC-12 (680-230805-4), WAN-WGWC-13 (680-230805-5), WAN-WGWC-14A (680-230805-6), WAN-WGWC-17 (680-230805-7), WAN-WGWC-19 (680-230805-8), WAN-WGWC-20 (680-230805-9), WAN-WGWC-21 (680-230805-10), WAN-WGWC-26D (680-230805-11), WAN-WGWC-27 (680-230805-12), WAN-AP1-FD-02 (680-230805-13), WAN-AP1-FD-03 (680-230805-14), WAN-AP1-FB-08 (680-230805-15), WAN-AP1-FB-09 (680-230805-16), WAN-AP1-EB-02 (680-230805-17), WAN-AP1-EB-03 (680-230805-18), (LCS 160-602055/2-A), (LCSD 160-602055/22-A) and (MB 160-602055/1-A)

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

Rad

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

Client Sample Results

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

Job ID: 680-230805-2

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-230805-1

Date Collected: 02/16/23 14:52

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.456		0.119	0.126	1.00	0.0970	pCi/L	03/01/23 12:06	03/30/23 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		30 - 110					03/01/23 12:06	03/30/23 07:30	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.59		0.580	0.627	1.00	0.561	pCi/L	03/01/23 12:23	03/09/23 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		30 - 110					03/01/23 12:23	03/09/23 12:06	1
Y Carrier	80.7		30 - 110					03/01/23 12:23	03/09/23 12:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.04		0.592	0.640	2.00	0.561	pCi/L		03/30/23 17:59	1

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-230805-2

Date Collected: 02/16/23 13:18

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0685	U	0.0656	0.0659	1.00	0.102	pCi/L	03/01/23 12:06	03/30/23 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		30 - 110					03/01/23 12:06	03/30/23 07:30	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.257	U	0.367	0.368	1.00	0.618	pCi/L	03/01/23 12:23	03/09/23 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		30 - 110					03/01/23 12:23	03/09/23 12:06	1
Y Carrier	81.1		30 - 110					03/01/23 12:23	03/09/23 12:06	1

Client Sample Results

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

Job ID: 680-230805-2

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-230805-2

Date Collected: 02/16/23 13:18

Matrix: Water

Date Received: 02/18/23 06:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.326	U	0.373	0.374	2.00	0.618	pCi/L		03/30/23 17:59	1

Client Sample ID: WAN-WGWC-11

Lab Sample ID: 680-230805-3

Date Collected: 02/16/23 11:55

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0564	U	0.0515	0.0518	1.00	0.0775	pCi/L	03/01/23 12:06	03/30/23 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		30 - 110					03/01/23 12:06	03/30/23 07:30	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.361	U	0.300	0.302	1.00	0.465	pCi/L	03/01/23 12:23	03/09/23 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		30 - 110					03/01/23 12:23	03/09/23 12:06	1
Y Carrier	81.1		30 - 110					03/01/23 12:23	03/09/23 12:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.417	U	0.304	0.306	2.00	0.465	pCi/L		03/30/23 17:59	1

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-230805-4

Date Collected: 02/16/23 10:55

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.128		0.0745	0.0754	1.00	0.0991	pCi/L	03/01/23 12:06	03/30/23 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		30 - 110					03/01/23 12:06	03/30/23 07:30	1

Client Sample Results

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

Job ID: 680-230805-2

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-230805-4

Date Collected: 02/16/23 10:55

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.260	U	0.299	0.300	1.00	0.491	pCi/L	03/01/23 12:23	03/09/23 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		30 - 110					03/01/23 12:23	03/09/23 12:06	1
Y Carrier	82.6		30 - 110					03/01/23 12:23	03/09/23 12:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.388	U	0.308	0.309	2.00	0.491	pCi/L		03/30/23 17:59	1

Client Sample ID: WAN-WGWC-13

Lab Sample ID: 680-230805-5

Date Collected: 02/16/23 15:25

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.215		0.0857	0.0878	1.00	0.0953	pCi/L	03/01/23 12:06	03/30/23 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		30 - 110					03/01/23 12:06	03/30/23 07:30	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0140	U	0.325	0.325	1.00	0.609	pCi/L	03/01/23 12:23	03/09/23 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		30 - 110					03/01/23 12:23	03/09/23 12:07	1
Y Carrier	83.0		30 - 110					03/01/23 12:23	03/09/23 12:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.200	U	0.336	0.337	2.00	0.609	pCi/L		03/30/23 17:59	1

Client Sample Results

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

Job ID: 680-230805-2

Client Sample ID: WAN-WGWC-14A

Lab Sample ID: 680-230805-6

Date Collected: 02/16/23 13:30

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.329		0.104	0.108	1.00	0.101	pCi/L	03/01/23 12:06	03/30/23 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					03/01/23 12:06	03/30/23 07:30	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.126	U	0.282	0.282	1.00	0.497	pCi/L	03/01/23 12:23	03/09/23 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					03/01/23 12:23	03/09/23 12:07	1
Y Carrier	83.0		30 - 110					03/01/23 12:23	03/09/23 12:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.455	U	0.301	0.302	2.00	0.497	pCi/L		03/30/23 17:59	1

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-230805-7

Date Collected: 02/16/23 11:02

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0349	U	0.0544	0.0545	1.00	0.0940	pCi/L	03/01/23 12:06	03/30/23 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		30 - 110					03/01/23 12:06	03/30/23 07:30	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0863	U	0.305	0.305	1.00	0.552	pCi/L	03/01/23 12:23	03/09/23 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		30 - 110					03/01/23 12:23	03/09/23 12:07	1
Y Carrier	82.2		30 - 110					03/01/23 12:23	03/09/23 12:07	1

Client Sample Results

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

Job ID: 680-230805-2

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-230805-7

Date Collected: 02/16/23 11:02

Matrix: Water

Date Received: 02/18/23 06:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.121	U	0.310	0.310	2.00	0.552	pCi/L		03/30/23 17:59	1

Client Sample ID: WAN-WGWC-19

Lab Sample ID: 680-230805-8

Date Collected: 02/16/23 13:09

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.106	U	0.0883	0.0888	1.00	0.134	pCi/L	03/01/23 12:06	03/30/23 07:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.2		30 - 110					03/01/23 12:06	03/30/23 07:31	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.142	U	0.323	0.323	1.00	0.573	pCi/L	03/01/23 12:23	03/09/23 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.2		30 - 110					03/01/23 12:23	03/09/23 12:07	1
Y Carrier	81.9		30 - 110					03/01/23 12:23	03/09/23 12:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.248	U	0.335	0.335	2.00	0.573	pCi/L		03/30/23 17:59	1

Client Sample ID: WAN-WGWC-20

Lab Sample ID: 680-230805-9

Date Collected: 02/16/23 10:05

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.215		0.0860	0.0881	1.00	0.0908	pCi/L	03/01/23 12:06	03/30/23 07:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					03/01/23 12:06	03/30/23 07:31	1

Client Sample Results

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

Job ID: 680-230805-2

Client Sample ID: WAN-WGWC-20

Lab Sample ID: 680-230805-9

Date Collected: 02/16/23 10:05

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.639		0.387	0.391	1.00	0.563	pCi/L	03/01/23 12:23	03/09/23 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					03/01/23 12:23	03/09/23 12:07	1
Y Carrier	81.9		30 - 110					03/01/23 12:23	03/09/23 12:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.853		0.396	0.401	2.00	0.563	pCi/L		03/30/23 17:59	1

Client Sample ID: WAN-WGWC-21

Lab Sample ID: 680-230805-10

Date Collected: 02/16/23 16:07

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.239		0.0912	0.0937	1.00	0.0929	pCi/L	03/01/23 12:06	03/30/23 07:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		30 - 110					03/01/23 12:06	03/30/23 07:31	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.378	U	0.336	0.338	1.00	0.527	pCi/L	03/01/23 12:23	03/09/23 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		30 - 110					03/01/23 12:23	03/09/23 12:07	1
Y Carrier	79.3		30 - 110					03/01/23 12:23	03/09/23 12:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.617		0.348	0.351	2.00	0.527	pCi/L		03/30/23 17:59	1

Eurofins Savannah

Client Sample Results

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

Job ID: 680-230805-2

Client Sample ID: WAN-WGWC-26D

Lab Sample ID: 680-230805-11

Date Collected: 02/16/23 12:50

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.55		0.257	0.345	1.00	0.0964	pCi/L	03/01/23 12:06	03/30/23 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		30 - 110					03/01/23 12:06	03/30/23 09:40	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.94		0.609	0.666	1.00	0.553	pCi/L	03/01/23 12:23	03/09/23 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		30 - 110					03/01/23 12:23	03/09/23 12:07	1
Y Carrier	81.1		30 - 110					03/01/23 12:23	03/09/23 12:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	5.49		0.661	0.750	2.00	0.553	pCi/L		03/30/23 17:59	1

Client Sample ID: WAN-WGWC-27

Lab Sample ID: 680-230805-12

Date Collected: 02/16/23 15:25

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.693		0.140	0.154	1.00	0.0946	pCi/L	03/01/23 12:06	03/30/23 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		30 - 110					03/01/23 12:06	03/30/23 09:40	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.47		0.496	0.514	1.00	0.597	pCi/L	03/01/23 12:23	03/09/23 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		30 - 110					03/01/23 12:23	03/09/23 12:07	1
Y Carrier	77.0		30 - 110					03/01/23 12:23	03/09/23 12:07	1

Client Sample Results

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

Job ID: 680-230805-2

Client Sample ID: WAN-WGWC-27

Lab Sample ID: 680-230805-12

Date Collected: 02/16/23 15:25

Matrix: Water

Date Received: 02/18/23 06:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.16		0.515	0.537	2.00	0.597	pCi/L		03/30/23 17:59	1

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-230805-13

Date Collected: 02/16/23 00:00

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.62		0.260	0.351	1.00	0.0977	pCi/L	03/01/23 12:06	03/30/23 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					03/01/23 12:06	03/30/23 09:40	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.27		0.649	0.716	1.00	0.582	pCi/L	03/01/23 12:23	03/09/23 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					03/01/23 12:23	03/09/23 12:07	1
Y Carrier	76.6		30 - 110					03/01/23 12:23	03/09/23 12:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	5.89		0.699	0.797	2.00	0.582	pCi/L		03/30/23 17:59	1

Client Sample ID: WAN-AP1-FD-03

Lab Sample ID: 680-230805-14

Date Collected: 02/16/23 00:00

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.521		0.127	0.136	1.00	0.0902	pCi/L	03/01/23 12:06	03/30/23 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		30 - 110					03/01/23 12:06	03/30/23 09:40	1

Client Sample Results

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

Job ID: 680-230805-2

Client Sample ID: WAN-AP1-FD-03

Lab Sample ID: 680-230805-14

Date Collected: 02/16/23 00:00

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.53		0.635	0.676	1.00	0.700	pCi/L	03/01/23 12:23	03/09/23 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		30 - 110					03/01/23 12:23	03/09/23 12:08	1
Y Carrier	83.4		30 - 110					03/01/23 12:23	03/09/23 12:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.05		0.648	0.690	2.00	0.700	pCi/L		03/30/23 17:59	1

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-230805-15

Date Collected: 02/16/23 12:25

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0144	U	0.0460	0.0461	1.00	0.101	pCi/L	03/01/23 12:06	03/30/23 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		30 - 110					03/01/23 12:06	03/30/23 09:40	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.229	U	0.286	0.287	1.00	0.474	pCi/L	03/01/23 12:23	03/09/23 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		30 - 110					03/01/23 12:23	03/09/23 12:08	1
Y Carrier	86.0		30 - 110					03/01/23 12:23	03/09/23 12:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.215	U	0.290	0.291	2.00	0.474	pCi/L		03/30/23 17:59	1

Client Sample Results

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

Job ID: 680-230805-2

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-230805-16

Date Collected: 02/16/23 15:55

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00645	U	0.0445	0.0445	1.00	0.0936	pCi/L	03/01/23 12:06	03/30/23 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					03/01/23 12:06	03/30/23 09:40	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.144	U	0.299	0.299	1.00	0.523	pCi/L	03/01/23 12:23	03/09/23 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					03/01/23 12:23	03/09/23 12:09	1
Y Carrier	83.0		30 - 110					03/01/23 12:23	03/09/23 12:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.137	U	0.302	0.302	2.00	0.523	pCi/L		03/30/23 17:59	1

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-230805-17

Date Collected: 02/16/23 09:10

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0129	U	0.0539	0.0540	1.00	0.103	pCi/L	03/01/23 12:06	03/30/23 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					03/01/23 12:06	03/30/23 09:40	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.189	U	0.328	0.329	1.00	0.563	pCi/L	03/01/23 12:23	03/09/23 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					03/01/23 12:23	03/09/23 12:09	1
Y Carrier	84.9		30 - 110					03/01/23 12:23	03/09/23 12:09	1

Client Sample Results

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

Job ID: 680-230805-2

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-230805-17

Date Collected: 02/16/23 09:10

Matrix: Water

Date Received: 02/18/23 06:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.202	U	0.332	0.333	2.00	0.563	pCi/L		03/30/23 17:59	1

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-230805-18

Date Collected: 02/16/23 16:15

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0326	U	0.0509	0.0510	1.00	0.0880	pCi/L	03/01/23 12:06	03/30/23 09:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		30 - 110					03/01/23 12:06	03/30/23 09:41	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.640		0.393	0.397	1.00	0.581	pCi/L	03/01/23 12:23	03/09/23 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		30 - 110					03/01/23 12:23	03/09/23 12:09	1
Y Carrier	83.4		30 - 110					03/01/23 12:23	03/09/23 12:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.673		0.396	0.400	2.00	0.581	pCi/L		03/30/23 17:59	1

Tracer/Carrier Summary

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

Job ID: 680-230805-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
680-230805-1	WAN-WGWC-8	85.9	80.7
680-230805-2	WAN-WGWC-10	85.6	81.1
680-230805-3	WAN-WGWC-11	97.5	81.1
680-230805-4	WAN-WGWC-12	91.8	82.6
680-230805-5	WAN-WGWC-13	87.9	83.0
680-230805-6	WAN-WGWC-14A	89.5	83.0
680-230805-7	WAN-WGWC-17	83.3	82.2
680-230805-8	WAN-WGWC-19	73.2	81.9
680-230805-9	WAN-WGWC-20	90.1	81.9
680-230805-10	WAN-WGWC-21	85.9	79.3
680-230805-11	WAN-WGWC-26D	87.9	81.1
680-230805-12	WAN-WGWC-27	88.4	77.0
680-230805-13	WAN-AP1-FD-02	91.0	76.6
680-230805-14	WAN-AP1-FD-03	81.1	83.4
680-230805-15	WAN-AP1-FB-08	89.8	86.0
680-230805-16	WAN-AP1-FB-09	89.5	83.0
680-230805-17	WAN-AP1-EB-02	87.0	84.9
680-230805-18	WAN-AP1-EB-03	90.4	83.4
LCS 160-602054/2-A	Lab Control Sample	87.0	83.0
LCSD 160-602054/22-A	Lab Control Sample Dup	82.2	
MB 160-602054/1-A	Method Blank	90.4	

Tracer/Carrier Legend
Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
680-230805-1	WAN-WGWC-8	85.9	80.7
680-230805-2	WAN-WGWC-10	85.6	81.1
680-230805-3	WAN-WGWC-11	97.5	81.1
680-230805-4	WAN-WGWC-12	91.8	82.6
680-230805-5	WAN-WGWC-13	87.9	83.0
680-230805-6	WAN-WGWC-14A	89.5	83.0
680-230805-7	WAN-WGWC-17	83.3	82.2
680-230805-8	WAN-WGWC-19	73.2	81.9
680-230805-9	WAN-WGWC-20	90.1	81.9
680-230805-10	WAN-WGWC-21	85.9	79.3
680-230805-11	WAN-WGWC-26D	87.9	81.1
680-230805-12	WAN-WGWC-27	88.4	77.0
680-230805-13	WAN-AP1-FD-02	91.0	76.6
680-230805-14	WAN-AP1-FD-03	81.1	83.4
680-230805-15	WAN-AP1-FB-08	89.8	86.0
680-230805-16	WAN-AP1-FB-09	89.5	83.0
680-230805-17	WAN-AP1-EB-02	87.0	84.9
680-230805-18	WAN-AP1-EB-03	90.4	83.4
LCS 160-602055/2-A	Lab Control Sample	87.0	83.0

Tracer/Carrier Summary

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

Job ID: 680-230805-2

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

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba	Y
		(30-110)	(30-110)
LCSD 160-602055/22-A	Lab Control Sample Dup	82.2	76.3
MB 160-602055/1-A	Method Blank	90.4	84.1

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

QC Sample Results

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

Job ID: 680-230805-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-602054/1-A
Matrix: Water
Analysis Batch: 605624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602054

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01508	U	0.0656	0.0656	1.00	0.123	pCi/L	03/01/23 12:06	03/30/23 07:27	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	90.4		30 - 110				03/01/23 12:06		03/30/23 07:27	1

Lab Sample ID: LCS 160-602054/2-A
Matrix: Water
Analysis Batch: 605622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602054

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.31		1.15	1.00	0.0978	pCi/L	100	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	87.0		30 - 110						

Lab Sample ID: LCSD 160-602054/22-A
Matrix: Water
Analysis Batch: 605622

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 602054

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER
				Uncert. (2σ+/-)							Limit
Radium-226	11.3	12.17		1.24	1.00	0.0975	pCi/L	107	75 - 125	0.36	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	82.2		30 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-602055/1-A
Matrix: Water
Analysis Batch: 603031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602055

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.07662	U	0.296	0.297	1.00	0.534	pCi/L	03/01/23 12:23	03/09/23 12:05	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	90.4		30 - 110				03/01/23 12:23		03/09/23 12:05	1
Y Carrier	84.1		30 - 110				03/01/23 12:23		03/09/23 12:05	1

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QC Sample Results

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

Job ID: 680-230805-2

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

Lab Sample ID: LCS 160-602055/2-A
Matrix: Water
Analysis Batch: 603031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602055

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	8.13	10.52		1.43	1.00	0.653	pCi/L	129	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	87.0		30 - 110							
Y Carrier	83.0		30 - 110							

Lab Sample ID: LCSD 160-602055/22-A
Matrix: Water
Analysis Batch: 603030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 602055

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		RER	RER Limit
Radium-228	8.13	10.68		1.64	1.00	0.871	pCi/L	131	75 - 125	0.05	1	
LCSD LCSD												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	82.2		30 - 110									
Y Carrier	76.3		30 - 110									

QC Association Summary

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

Job ID: 680-230805-2

Rad

Prep Batch: 602054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-1	WAN-WGWC-8	Total/NA	Water	PrecSep-21	
680-230805-2	WAN-WGWC-10	Total/NA	Water	PrecSep-21	
680-230805-3	WAN-WGWC-11	Total/NA	Water	PrecSep-21	
680-230805-4	WAN-WGWC-12	Total/NA	Water	PrecSep-21	
680-230805-5	WAN-WGWC-13	Total/NA	Water	PrecSep-21	
680-230805-6	WAN-WGWC-14A	Total/NA	Water	PrecSep-21	
680-230805-7	WAN-WGWC-17	Total/NA	Water	PrecSep-21	
680-230805-8	WAN-WGWC-19	Total/NA	Water	PrecSep-21	
680-230805-9	WAN-WGWC-20	Total/NA	Water	PrecSep-21	
680-230805-10	WAN-WGWC-21	Total/NA	Water	PrecSep-21	
680-230805-11	WAN-WGWC-26D	Total/NA	Water	PrecSep-21	
680-230805-12	WAN-WGWC-27	Total/NA	Water	PrecSep-21	
680-230805-13	WAN-AP1-FD-02	Total/NA	Water	PrecSep-21	
680-230805-14	WAN-AP1-FD-03	Total/NA	Water	PrecSep-21	
680-230805-15	WAN-AP1-FB-08	Total/NA	Water	PrecSep-21	
680-230805-16	WAN-AP1-FB-09	Total/NA	Water	PrecSep-21	
680-230805-17	WAN-AP1-EB-02	Total/NA	Water	PrecSep-21	
680-230805-18	WAN-AP1-EB-03	Total/NA	Water	PrecSep-21	
MB 160-602054/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-602054/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-602054/22-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 602055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230805-1	WAN-WGWC-8	Total/NA	Water	PrecSep_0	
680-230805-2	WAN-WGWC-10	Total/NA	Water	PrecSep_0	
680-230805-3	WAN-WGWC-11	Total/NA	Water	PrecSep_0	
680-230805-4	WAN-WGWC-12	Total/NA	Water	PrecSep_0	
680-230805-5	WAN-WGWC-13	Total/NA	Water	PrecSep_0	
680-230805-6	WAN-WGWC-14A	Total/NA	Water	PrecSep_0	
680-230805-7	WAN-WGWC-17	Total/NA	Water	PrecSep_0	
680-230805-8	WAN-WGWC-19	Total/NA	Water	PrecSep_0	
680-230805-9	WAN-WGWC-20	Total/NA	Water	PrecSep_0	
680-230805-10	WAN-WGWC-21	Total/NA	Water	PrecSep_0	
680-230805-11	WAN-WGWC-26D	Total/NA	Water	PrecSep_0	
680-230805-12	WAN-WGWC-27	Total/NA	Water	PrecSep_0	
680-230805-13	WAN-AP1-FD-02	Total/NA	Water	PrecSep_0	
680-230805-14	WAN-AP1-FD-03	Total/NA	Water	PrecSep_0	
680-230805-15	WAN-AP1-FB-08	Total/NA	Water	PrecSep_0	
680-230805-16	WAN-AP1-FB-09	Total/NA	Water	PrecSep_0	
680-230805-17	WAN-AP1-EB-02	Total/NA	Water	PrecSep_0	
680-230805-18	WAN-AP1-EB-03	Total/NA	Water	PrecSep_0	
MB 160-602055/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-602055/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-602055/22-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Lab Chronicle

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

Job ID: 680-230805-2

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-230805-1

Date Collected: 02/16/23 14:52

Matrix: Water

Date Received: 02/18/23 06:30

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			1001.97 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 07:30	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1001.97 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603031	03/09/23 12:06	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-230805-2

Date Collected: 02/16/23 13:18

Matrix: Water

Date Received: 02/18/23 06:30

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			999.71 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 07:30	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			999.71 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603031	03/09/23 12:06	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-11

Lab Sample ID: 680-230805-3

Date Collected: 02/16/23 11:55

Matrix: Water

Date Received: 02/18/23 06:30

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			999.06 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 07:30	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			999.06 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603031	03/09/23 12:06	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-230805-4

Date Collected: 02/16/23 10:55

Matrix: Water

Date Received: 02/18/23 06:30

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			1002.38 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 07:30	FLC	EET SL
Instrument ID: GFPCPURPLE										

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Lab Chronicle

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

Job ID: 680-230805-2

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-230805-4

Date Collected: 02/16/23 10:55

Matrix: Water

Date Received: 02/18/23 06:30

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			1002.38 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603031	03/09/23 12:06	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-13

Lab Sample ID: 680-230805-5

Date Collected: 02/16/23 15:25

Matrix: Water

Date Received: 02/18/23 06:30

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			997.32 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 07:30	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			997.32 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603031	03/09/23 12:07	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-14A

Lab Sample ID: 680-230805-6

Date Collected: 02/16/23 13:30

Matrix: Water

Date Received: 02/18/23 06:30

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			997.13 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 07:30	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			997.13 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603031	03/09/23 12:07	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-230805-7

Date Collected: 02/16/23 11:02

Matrix: Water

Date Received: 02/18/23 06:30

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			998.88 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 07:30	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			998.88 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603031	03/09/23 12:07	FLC	EET SL
Instrument ID: GFPCBLUE										

Eurofins Savannah

Lab Chronicle

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

Job ID: 680-230805-2

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-230805-7

Date Collected: 02/16/23 11:02

Matrix: Water

Date Received: 02/18/23 06:30

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			605732	03/30/23 17:59	EMH	EET SL

Client Sample ID: WAN-WGWC-19

Lab Sample ID: 680-230805-8

Date Collected: 02/16/23 13:09

Matrix: Water

Date Received: 02/18/23 06:30

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			998.21 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 07:31	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			998.21 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603031	03/09/23 12:07	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-20

Lab Sample ID: 680-230805-9

Date Collected: 02/16/23 10:05

Matrix: Water

Date Received: 02/18/23 06:30

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			996.74 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 07:31	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			996.74 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603031	03/09/23 12:07	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-21

Lab Sample ID: 680-230805-10

Date Collected: 02/16/23 16:07

Matrix: Water

Date Received: 02/18/23 06:30

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			990.86 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 07:31	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			990.86 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603031	03/09/23 12:07	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 680-230805-2

Client Sample ID: WAN-WGWC-26D

Lab Sample ID: 680-230805-11

Date Collected: 02/16/23 12:50

Matrix: Water

Date Received: 02/18/23 06:30

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			1006.23 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 09:40	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1006.23 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603031	03/09/23 12:07	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-27

Lab Sample ID: 680-230805-12

Date Collected: 02/16/23 15:25

Matrix: Water

Date Received: 02/18/23 06:30

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			1003.33 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 09:40	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1003.33 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603031	03/09/23 12:07	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-230805-13

Date Collected: 02/16/23 00:00

Matrix: Water

Date Received: 02/18/23 06:30

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			995.22 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 09:40	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			995.22 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603031	03/09/23 12:07	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-FD-03

Lab Sample ID: 680-230805-14

Date Collected: 02/16/23 00:00

Matrix: Water

Date Received: 02/18/23 06:30

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			996.09 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 09:40	FLC	EET SL
Instrument ID: GFPCPURPLE										

Eurofins Savannah

Lab Chronicle

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

Job ID: 680-230805-2

Client Sample ID: WAN-AP1-FD-03
Date Collected: 02/16/23 00:00
Date Received: 02/18/23 06:30

Lab Sample ID: 680-230805-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			996.09 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603031	03/09/23 12:08	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-FB-08
Date Collected: 02/16/23 12:25
Date Received: 02/18/23 06:30

Lab Sample ID: 680-230805-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.84 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 09:40	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1002.84 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603031	03/09/23 12:08	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-FB-09
Date Collected: 02/16/23 15:55
Date Received: 02/18/23 06:30

Lab Sample ID: 680-230805-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.51 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 09:40	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			999.51 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603030	03/09/23 12:09	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-EB-02
Date Collected: 02/16/23 09:10
Date Received: 02/18/23 06:30

Lab Sample ID: 680-230805-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.31 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 09:40	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			999.31 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1			603030	03/09/23 12:09	FLC	EET SL
Instrument ID: GFPCPURPLE										

Eurofins Savannah

Lab Chronicle

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

Job ID: 680-230805-2

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-230805-17

Date Collected: 02/16/23 09:10

Matrix: Water

Date Received: 02/18/23 06:30

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			605732	03/30/23 17:59	EMH	EET SL

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-230805-18

Date Collected: 02/16/23 16:15

Matrix: Water

Date Received: 02/18/23 06:30

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			998.60 mL	1.0 g	602054	03/01/23 12:06	DJP	EET SL
Total/NA	Analysis	9315		1			605622	03/30/23 09:41	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			998.60 mL	1.0 g	602055	03/01/23 12:23	DJP	EET SL
Total/NA	Analysis	9320		1	1.0 mL	1.0 mL	603030	03/09/23 12:09	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			605732	03/30/23 17:59	EMH	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 680-230805-2

Laboratory: Eurofins St. Louis

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87689	06-30-23

1

2

3

4

5

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Method Summary

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

Job ID: 680-230805-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Fuller, David	Carrier Tracking No(s): 680-727942.1
Client Contact: Shipping/Receiving		E-Mail: David.Fuller@et.eurofins.com	Page: 1 of 2
Company: TestAmerica Laboratories, Inc.		State of Origin: Georgia	Job #: 680-230805-2
Address: 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Florida, State - Georgia	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)
Due Date Requested: 3/30/2023		Analysis Requested	
TAT Requested (days):		Total Number of Containers: 2	
PO #	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	9315_Ra226/Presep_21 Radium 226
WO #	Matrix (W=Water, S=solid, O=wastewater, A=Air)	Radium-226	9320_Ra228/Presep_0 Radium 228
Project #:	Sample Type (C=Comp, G=grab)	Form GFC/ Combined Radium-226 and	
Plant Wansley - Ash Pond	Sample Time	Preservation Code	
Site	Sample Date		
	2/16/23	Water	X
	14:52 Eastern	Water	X
	2/16/23	Water	X
	13:18 Eastern	Water	X
	2/16/23	Water	X
	11:55 Eastern	Water	X
	2/16/23	Water	X
	10:55 Eastern	Water	X
	2/16/23	Water	X
	15:25 Eastern	Water	X
	2/16/23	Water	X
	13:30 Eastern	Water	X
	2/16/23	Water	X
	11:02 Eastern	Water	X
	2/16/23	Water	X
	13:09 Eastern	Water	X
	2/16/23	Water	X
	10:05 Eastern	Water	X
	2/16/23	Water	X

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: Date: Time: Method of Shipment: Return To Client Disposal By Lab Archive For Months

Relinquished by: Date/Time: Company: Received by: **FEDGX** Date/Time: Company: **ETAS TL**

Relinquished by: Date/Time: Company: Received by: **Brian Schanberg - Savannah** Date/Time: Company: **ETAS TL**

Custody Seals Intact: Yes No Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM	Carrier Tracking No(s)	COB No.									
Client Contact		Fuller, David		680-727942.2									
Shipping/Receiving		E-Mail: David.Fuller@et.eurofins.com	State of Origin: Georgia	Page: Page 2 of 2									
Company		Address: TestAmerica Laboratories, Inc. 13715 Rider Trail North, MO 63045	Job #	680-230805-2									
Due Date Requested: 3/30/2023		Accreditations Required (See note): NELAP - Florida; State - Georgia											
TAT Requested (days):		Analysis Requested											
City	PO #	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PreSep_21 Radium 226									
State, Zip	WO #	Matrix (W=water, S=solid, O=waterfall, BT=tissue, ANAL)	Preservation Code:	9320_Ra226/PreSep_0 Radium 228									
Phone	Project #	Sample Type (C=Comp, G=grab)	Sample Time	Radium 226									
314-298-8566(Tel) 314-298-8757(Fax)	68027766	Sample Date	Sample Time										
Email:	SSOW#	Sample Date	Sample Time										
Project Name	Plant Wansley - Ash Pond	Sample Date	Sample Time										
Site		Sample Date	Sample Time										
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Time	Preservation Code	Matrix	Sample Type	Field Filtered Sample	Perform MS/MSD	9315_Ra226/PreSep_21 Radium 226	9320_Ra226/PreSep_0 Radium 228	Radium 226	Total Number of Containers	Special Instructions/Note:
WAN-WGWC-21 (680-230805-10)	2/16/23	16:07 Eastern	Water	Water	Water	C=Comp	X	X	X	X	X	2	
WAN-WGWC-26D (680-230805-11)	2/16/23	12:50 Eastern	Water	Water	Water	G=grab	X	X	X	X	X	2	
WAN-WGWC-27 (680-230805-12)	2/16/23	15:25 Eastern	Water	Water	Water		X	X	X	X	X	2	
WAN-AP1-FD-02 (680-230805-13)	2/16/23	Eastern	Water	Water	Water		X	X	X	X	X	2	
WAN-AP1-FD-03 (680-230805-14)	2/16/23	Eastern	Water	Water	Water		X	X	X	X	X	2	
WAN-AP1-FB-08 (680-230805-15)	2/16/23	12:25 Eastern	Water	Water	Water		X	X	X	X	X	2	
WAN-AP1-FB-09 (680-230805-16)	2/16/23	15:55 Eastern	Water	Water	Water		X	X	X	X	X	2	
WAN-AP1-EB-02 (680-230805-17)	2/16/23	09:10 Eastern	Water	Water	Water		X	X	X	X	X	2	
WAN-AP1-EB-03 (680-230805-18)	2/16/23	16:15 Eastern	Water	Water	Water		X	X	X	X	X	2	36

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

Possible Hazard Identification

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

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: **FedEx** Date/Time: _____ Company: **FedEx**

Relinquished by: **Bruna Sharkey - Monahan** Date/Time: **2/23/23 0955** Company: **ETA STL**

Custody Seals Intact: _____ (Custody Seal No.: _____)

Δ Yes Δ No

Special Instructions/Note: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Method of Shipment: _____

Received by: _____ Date/Time: _____ Company: _____

Received by: **FedEx** Date/Time: _____ Company: **FedEx**

Received by: **Bruna Sharkey - Monahan** Date/Time: **2/23/23 0955** Company: **ETA STL**

Cooler Temperature(s) °C and Other Remarks: _____

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-230805-2

Login Number: 230805

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-230805-2

Login Number: 230805

List Number: 2

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 02/22/23 11:47 AM

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





ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/18/2023 3:21:58 PM

JOB DESCRIPTION

Plant Wansley Ash Pond - Risk Evaluation

JOB NUMBER

680-235017-1

Eurofins Savannah

Job Notes

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Authorization



Authorized for release by
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(770)344-8986

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Definitions/Glossary

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

Job ID: 680-235017-1

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

Sample Summary

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

Job ID: 680-235017-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-235017-1	WAN-WCR (+0.1)	Water	05/15/23 12:40	05/16/23 10:00
680-235017-2	WAN-WCR (+1.9)	Water	05/15/23 13:05	05/16/23 10:00
680-235017-3	WAN-WCR (-0.6)	Water	05/15/23 12:10	05/16/23 10:00

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Case Narrative

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

Job ID: 680-235017-1

Job ID: 680-235017-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-235017-1

Receipt

The samples were received on 5/16/2023 10:00 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 time was 3.2°C

Metals

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

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Client Sample Results

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

Job ID: 680-235017-1

Client Sample ID: WAN-WCR (+0.1)

Lab Sample ID: 680-235017-1

Date Collected: 05/15/23 12:40

Matrix: Water

Date Received: 05/16/23 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0020		0.0050	0.0020	mg/L		05/17/23 06:13	05/17/23 14:02	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0020		0.0050	0.0020	mg/L		05/17/23 08:24	05/17/23 14:38	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.59				SU			05/15/23 12:40	1

Client Sample ID: WAN-WCR (+1.9)

Lab Sample ID: 680-235017-2

Date Collected: 05/15/23 13:05

Matrix: Water

Date Received: 05/16/23 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0020	J	0.0050	0.0020	mg/L		05/17/23 06:13	05/17/23 14:06	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0020		0.0050	0.0020	mg/L		05/17/23 08:24	05/17/23 14:50	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.71				SU			05/15/23 13:05	1

Client Sample ID: WAN-WCR (-0.6)

Lab Sample ID: 680-235017-3

Date Collected: 05/15/23 12:10

Matrix: Water

Date Received: 05/16/23 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0020		0.0050	0.0020	mg/L		05/17/23 06:13	05/17/23 14:10	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0020		0.0050	0.0020	mg/L		05/17/23 08:24	05/17/23 14:54	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.60				SU			05/15/23 12:10	1

QC Sample Results

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

Job ID: 680-235017-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-778986/1-A
Matrix: Water
Analysis Batch: 779220

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 778986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0020		0.0050	0.0020	mg/L		05/17/23 06:13	05/17/23 13:33	1

Lab Sample ID: LCS 680-778986/2-A
Matrix: Water
Analysis Batch: 779220

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 778986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.489		mg/L		98	80 - 120

Lab Sample ID: 680-234998-I-4-E MS
Matrix: Water
Analysis Batch: 779220

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 778986

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.0042	J	0.500	0.485		mg/L		96	75 - 125

Lab Sample ID: 680-234998-I-4-F MSD
Matrix: Water
Analysis Batch: 779220

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 778986

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.0042	J	0.500	0.509		mg/L		101	75 - 125	5	20

Lab Sample ID: MB 680-779021/1-B
Matrix: Water
Analysis Batch: 779220

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 779038

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0020		0.0050	0.0020	mg/L		05/17/23 08:24	05/17/23 14:30	1

Lab Sample ID: LCS 680-779021/2-B
Matrix: Water
Analysis Batch: 779220

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 779038

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium, Dissolved	0.500	0.487		mg/L		97	80 - 120

Lab Sample ID: 680-235017-1 MS
Matrix: Water
Analysis Batch: 779220

Client Sample ID: WAN-WCR (+0.1)
Prep Type: Dissolved
Prep Batch: 779038

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium, Dissolved	<0.0020		0.500	0.487		mg/L		97	75 - 125

Lab Sample ID: 680-235017-1 MSD
Matrix: Water
Analysis Batch: 779220

Client Sample ID: WAN-WCR (+0.1)
Prep Type: Dissolved
Prep Batch: 779038

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium, Dissolved	<0.0020		0.500	0.474		mg/L		95	75 - 125	3	20

Eurofins Savannah

QC Association Summary

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

Job ID: 680-235017-1

Metals

Prep Batch: 778986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235017-1	WAN-WCR (+0.1)	Total Recoverable	Water	3005A	
680-235017-2	WAN-WCR (+1.9)	Total Recoverable	Water	3005A	
680-235017-3	WAN-WCR (-0.6)	Total Recoverable	Water	3005A	
MB 680-778986/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-778986/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-234998-I-4-E MS	Matrix Spike	Total Recoverable	Water	3005A	
680-234998-I-4-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Filtration Batch: 779021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235017-1	WAN-WCR (+0.1)	Dissolved	Water	FILTRATION	
680-235017-2	WAN-WCR (+1.9)	Dissolved	Water	FILTRATION	
680-235017-3	WAN-WCR (-0.6)	Dissolved	Water	FILTRATION	
MB 680-779021/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-779021/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
680-235017-1 MS	WAN-WCR (+0.1)	Dissolved	Water	FILTRATION	
680-235017-1 MSD	WAN-WCR (+0.1)	Dissolved	Water	FILTRATION	

Prep Batch: 779038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235017-1	WAN-WCR (+0.1)	Dissolved	Water	3005A	779021
680-235017-2	WAN-WCR (+1.9)	Dissolved	Water	3005A	779021
680-235017-3	WAN-WCR (-0.6)	Dissolved	Water	3005A	779021
MB 680-779021/1-B	Method Blank	Dissolved	Water	3005A	779021
LCS 680-779021/2-B	Lab Control Sample	Dissolved	Water	3005A	779021
680-235017-1 MS	WAN-WCR (+0.1)	Dissolved	Water	3005A	779021
680-235017-1 MSD	WAN-WCR (+0.1)	Dissolved	Water	3005A	779021

Analysis Batch: 779220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235017-1	WAN-WCR (+0.1)	Dissolved	Water	6020B	779038
680-235017-1	WAN-WCR (+0.1)	Total Recoverable	Water	6020B	778986
680-235017-2	WAN-WCR (+1.9)	Dissolved	Water	6020B	779038
680-235017-2	WAN-WCR (+1.9)	Total Recoverable	Water	6020B	778986
680-235017-3	WAN-WCR (-0.6)	Dissolved	Water	6020B	779038
680-235017-3	WAN-WCR (-0.6)	Total Recoverable	Water	6020B	778986
MB 680-778986/1-A	Method Blank	Total Recoverable	Water	6020B	778986
MB 680-779021/1-B	Method Blank	Dissolved	Water	6020B	779038
LCS 680-778986/2-A	Lab Control Sample	Total Recoverable	Water	6020B	778986
LCS 680-779021/2-B	Lab Control Sample	Dissolved	Water	6020B	779038
680-234998-I-4-E MS	Matrix Spike	Total Recoverable	Water	6020B	778986
680-234998-I-4-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	778986
680-235017-1 MS	WAN-WCR (+0.1)	Dissolved	Water	6020B	779038
680-235017-1 MSD	WAN-WCR (+0.1)	Dissolved	Water	6020B	779038

Field Service / Mobile Lab

Analysis Batch: 778983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235017-1	WAN-WCR (+0.1)	Total/NA	Water	Field Sampling	
680-235017-2	WAN-WCR (+1.9)	Total/NA	Water	Field Sampling	

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QC Association Summary

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

Job ID: 680-235017-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 778983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235017-3	WAN-WCR (-0.6)	Total/NA	Water	Field Sampling	

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Lab Chronicle

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

Job ID: 680-235017-1

Client Sample ID: WAN-WCR (+0.1)

Lab Sample ID: 680-235017-1

Date Collected: 05/15/23 12:40

Matrix: Water

Date Received: 05/16/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			25 mL	125 mL	779021	05/17/23 08:24	RR	EET SAV
Dissolved	Prep	3005A			25 mL	125 mL	779038	05/17/23 08:24	RR	EET SAV
Dissolved	Analysis	6020B		1			779220	05/17/23 14:38	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	778986	05/17/23 06:13	RR	EET SAV
Total Recoverable	Analysis	6020B		1			779220	05/17/23 14:02	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	Field Sampling		1			778983	05/15/23 12:40	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WCR (+1.9)

Lab Sample ID: 680-235017-2

Date Collected: 05/15/23 13:05

Matrix: Water

Date Received: 05/16/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			25 mL	125 mL	779021	05/17/23 08:24	RR	EET SAV
Dissolved	Prep	3005A			25 mL	125 mL	779038	05/17/23 08:24	RR	EET SAV
Dissolved	Analysis	6020B		1			779220	05/17/23 14:50	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	778986	05/17/23 06:13	RR	EET SAV
Total Recoverable	Analysis	6020B		1			779220	05/17/23 14:06	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	Field Sampling		1			778983	05/15/23 13:05	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WCR (-0.6)

Lab Sample ID: 680-235017-3

Date Collected: 05/15/23 12:10

Matrix: Water

Date Received: 05/16/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			25 mL	125 mL	779021	05/17/23 08:24	RR	EET SAV
Dissolved	Prep	3005A			25 mL	125 mL	779038	05/17/23 08:24	RR	EET SAV
Dissolved	Analysis	6020B		1			779220	05/17/23 14:54	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	778986	05/17/23 06:13	RR	EET SAV
Total Recoverable	Analysis	6020B		1			779220	05/17/23 14:10	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	Field Sampling		1			778983	05/15/23 12:10	T1C	EET SAV
Instrument ID: NOEQUIP										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

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

Job ID: 680-235017-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-23
Georgia	State	E87052	06-30-23

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Method Summary

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

Job ID: 680-235017-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
Field Sampling	Field Sampling	EPA	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
FILTRATION	Sample Filtration	None	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-235017-1

Login Number: 235017

List Number: 1

Creator: Drake, Victoria

List Source: Eurofins Savannah

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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/24/2023 5:09:28 PM

JOB DESCRIPTION

Plant Wansley - Ash Pond

JOB NUMBER

680-239031-1

Eurofins Savannah

Job Notes

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Authorization



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(770)344-8986

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Definitions/Glossary

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

Job ID: 680-239031-1

Qualifiers

Metals

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

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

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

Sample Summary

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

Job ID: 680-239031-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-239031-1	WAN-WGWC-20	Water	08/11/23 11:00	08/12/23 12:14
680-239031-2	WAN-WGWC-26D	Water	08/11/23 10:05	08/12/23 12:14
680-239031-3	WAN-WGWC-27	Water	08/11/23 12:40	08/12/23 12:14

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Case Narrative

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

Job ID: 680-239031-1

Job ID: 680-239031-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-239031-1

Receipt

The samples were received on 8/12/2023 12:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C

HPLC/IC

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

Metals

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

General Chemistry

Method 2540C: A lesser volume of sample was used for the following samples due to the nature of the sample matrix resulting in elevated reporting limits: WAN-WGWC-20 (680-239031-1), WAN-WGWC-26D (680-239031-2) and WAN-WGWC-27 (680-239031-3).

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-794055 was outside control limits: (680-239031-C-2 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

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

Client Sample Results

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

Job ID: 680-239031-1

Client Sample ID: WAN-WGWC-20

Lab Sample ID: 680-239031-1

Date Collected: 08/11/23 11:00

Matrix: Water

Date Received: 08/12/23 12:14

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		2.0	0.40	mg/L			08/17/23 13:42	2
Fluoride	2.1		0.20	0.080	mg/L			08/17/23 13:42	2
Sulfate	330		2.0	0.80	mg/L			08/17/23 13:42	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00069	J	0.0020	0.00034	mg/L		08/14/23 08:09	08/15/23 00:14	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/14/23 08:09	08/15/23 00:14	1
Barium	<0.00089		0.010	0.00089	mg/L		08/14/23 08:09	08/15/23 00:14	1
Beryllium	0.0099		0.0025	0.00020	mg/L		08/14/23 08:09	08/15/23 00:14	1
Boron	3.1		0.080	0.022	mg/L		08/14/23 08:09	08/15/23 00:14	1
Cadmium	0.00019	J	0.0025	0.000078	mg/L		08/14/23 08:09	08/15/23 00:14	1
Calcium	150		0.50	0.14	mg/L		08/14/23 08:09	08/15/23 00:14	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/14/23 08:09	08/15/23 00:14	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/14/23 08:09	08/15/23 00:14	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/14/23 08:09	08/15/23 00:14	1
Lithium	0.13		0.0050	0.0020	mg/L		08/14/23 08:09	08/15/23 00:14	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/14/23 08:09	08/15/23 00:14	1
Selenium	0.0016	J	0.0050	0.00099	mg/L		08/14/23 08:09	08/15/23 00:14	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/14/23 08:09	08/15/23 00:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/17/23 12:13	08/18/23 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	910		40	40	mg/L			08/16/23 16:13	1

Client Sample ID: WAN-WGWC-26D

Lab Sample ID: 680-239031-2

Date Collected: 08/11/23 10:05

Matrix: Water

Date Received: 08/12/23 12:14

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		2.0	0.40	mg/L			08/17/23 13:55	2
Fluoride	2.2		0.20	0.080	mg/L			08/17/23 13:55	2
Sulfate	350		2.0	0.80	mg/L			08/17/23 13:55	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00090	J	0.0020	0.00034	mg/L		08/14/23 08:09	08/15/23 00:19	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/14/23 08:09	08/15/23 00:19	1
Barium	0.0040	J	0.010	0.00089	mg/L		08/14/23 08:09	08/15/23 00:19	1
Beryllium	0.0071		0.0025	0.00020	mg/L		08/14/23 08:09	08/15/23 00:19	1
Boron	3.3		0.080	0.022	mg/L		08/14/23 08:09	08/15/23 00:19	1
Cadmium	0.00011	J	0.0025	0.000078	mg/L		08/14/23 08:09	08/15/23 00:19	1
Calcium	140		0.50	0.14	mg/L		08/14/23 08:09	08/15/23 00:19	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/14/23 08:09	08/15/23 00:19	1
Cobalt	0.0011	J	0.0025	0.00022	mg/L		08/14/23 08:09	08/15/23 00:19	1

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Client Sample Results

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

Job ID: 680-239031-1

Client Sample ID: WAN-WGWC-26D

Lab Sample ID: 680-239031-2

Date Collected: 08/11/23 10:05

Matrix: Water

Date Received: 08/12/23 12:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		08/14/23 08:09	08/15/23 00:19	1
Lithium	0.15		0.0050	0.0020	mg/L		08/14/23 08:09	08/15/23 00:19	1
Molybdenum	0.0037	J	0.015	0.00086	mg/L		08/14/23 08:09	08/15/23 00:19	1
Selenium	0.0016	J	0.0050	0.00099	mg/L		08/14/23 08:09	08/15/23 00:19	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/14/23 08:09	08/15/23 00:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/17/23 12:13	08/18/23 11:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	950		40	40	mg/L			08/18/23 12:06	1

Client Sample ID: WAN-WGWC-27

Lab Sample ID: 680-239031-3

Date Collected: 08/11/23 12:40

Matrix: Water

Date Received: 08/12/23 12:14

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29		1.0	0.20	mg/L			08/17/23 14:08	1
Fluoride	1.1		0.10	0.040	mg/L			08/17/23 14:08	1
Sulfate	31		1.0	0.40	mg/L			08/17/23 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0015	J	0.0020	0.00034	mg/L		08/14/23 08:09	08/15/23 00:23	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/14/23 08:09	08/15/23 00:23	1
Barium	0.0047	J	0.010	0.00089	mg/L		08/14/23 08:09	08/15/23 00:23	1
Beryllium	0.00052	J	0.0025	0.00020	mg/L		08/14/23 08:09	08/15/23 00:23	1
Boron	0.35		0.080	0.022	mg/L		08/14/23 08:09	08/15/23 00:23	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/14/23 08:09	08/15/23 00:23	1
Calcium	25		0.50	0.14	mg/L		08/14/23 08:09	08/15/23 00:23	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/14/23 08:09	08/15/23 00:23	1
Cobalt	0.0018	J	0.0025	0.00022	mg/L		08/14/23 08:09	08/15/23 00:23	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/14/23 08:09	08/15/23 00:23	1
Lithium	0.036		0.0050	0.0020	mg/L		08/14/23 08:09	08/15/23 00:23	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/14/23 08:09	08/15/23 00:23	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/14/23 08:09	08/15/23 00:23	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/14/23 08:09	08/15/23 00:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/17/23 12:13	08/18/23 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	180		40	40	mg/L			08/18/23 12:06	1

QC Sample Results

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

Job ID: 680-239031-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-793810/2
Matrix: Water
Analysis Batch: 793810

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/17/23 08:09	1
Fluoride	<0.040		0.10	0.040	mg/L			08/17/23 08:09	1
Sulfate	<0.40		1.0	0.40	mg/L			08/17/23 08:09	1

Lab Sample ID: LCS 680-793810/4
Matrix: Water
Analysis Batch: 793810

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.89		mg/L		99	90 - 110
Fluoride	2.00	2.09		mg/L		104	90 - 110
Sulfate	10.0	10.4		mg/L		104	90 - 110

Lab Sample ID: LCSD 680-793810/5
Matrix: Water
Analysis Batch: 793810

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.92		mg/L		99	90 - 110	0	15
Fluoride	2.00	2.11		mg/L		106	90 - 110	1	15
Sulfate	10.0	10.4		mg/L		104	90 - 110	0	15

Lab Sample ID: 752-10489-C-1 MS
Matrix: Water
Analysis Batch: 793810

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.3		10.0	12.3		mg/L		100	80 - 120
Fluoride	0.042	J	2.00	2.13		mg/L		104	80 - 120
Sulfate	<0.40		10.0	9.76		mg/L		98	80 - 120

Lab Sample ID: 752-10489-C-1 MSD
Matrix: Water
Analysis Batch: 793810

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2.3		10.0	12.3		mg/L		100	80 - 120	0	15
Fluoride	0.042	J	2.00	2.13		mg/L		104	80 - 120	0	15
Sulfate	<0.40		10.0	9.73		mg/L		97	80 - 120	0	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-793258/1-A
Matrix: Water
Analysis Batch: 793414

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/14/23 08:09	08/14/23 23:25	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/14/23 08:09	08/14/23 23:25	1
Barium	<0.00089		0.010	0.00089	mg/L		08/14/23 08:09	08/14/23 23:25	1

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QC Sample Results

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

Job ID: 680-239031-1

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

Lab Sample ID: MB 680-793258/1-A
Matrix: Water
Analysis Batch: 793414

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793258

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/14/23 08:09	08/14/23 23:25	1
Boron	<0.022		0.080	0.022	mg/L		08/14/23 08:09	08/14/23 23:25	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/14/23 08:09	08/14/23 23:25	1
Calcium	<0.14		0.50	0.14	mg/L		08/14/23 08:09	08/14/23 23:25	1
Chromium	0.00133	J	0.0020	0.0012	mg/L		08/14/23 08:09	08/14/23 23:25	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/14/23 08:09	08/14/23 23:25	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/14/23 08:09	08/14/23 23:25	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/14/23 08:09	08/14/23 23:25	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/14/23 08:09	08/14/23 23:25	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/14/23 08:09	08/14/23 23:25	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/14/23 08:09	08/14/23 23:25	1

Lab Sample ID: LCS 680-793258/2-A
Matrix: Water
Analysis Batch: 793414

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 793258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0950		mg/L		95	80 - 120
Barium	0.100	0.0962		mg/L		96	80 - 120
Beryllium	0.0500	0.0488		mg/L		98	80 - 120
Boron	0.200	0.197		mg/L		98	80 - 120
Cadmium	0.0500	0.0464		mg/L		93	80 - 120
Calcium	5.00	4.83		mg/L		97	80 - 120
Chromium	0.100	0.103		mg/L		103	80 - 120
Cobalt	0.0500	0.0460		mg/L		92	80 - 120
Lead	0.500	0.482		mg/L		96	80 - 120
Lithium	0.500	0.477		mg/L		95	80 - 120
Molybdenum	0.100	0.0914		mg/L		91	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Thallium	0.0500	0.0460		mg/L		92	80 - 120

Lab Sample ID: 680-239029-B-11-B MS
Matrix: Water
Analysis Batch: 793414

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 793258

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<0.00034		0.0500	0.0492		mg/L		98	75 - 125
Arsenic	<0.00086		0.100	0.0952		mg/L		95	75 - 125
Barium	0.062		0.100	0.155		mg/L		94	75 - 125
Beryllium	<0.00020		0.0500	0.0494		mg/L		99	75 - 125
Boron	<0.022		0.200	0.202		mg/L		101	75 - 125
Cadmium	<0.000078		0.0500	0.0478		mg/L		96	75 - 125
Calcium	5.7		5.00	9.67		mg/L		79	75 - 125
Chromium	<0.0012		0.100	0.101		mg/L		101	75 - 125
Cobalt	<0.00022		0.0500	0.0465		mg/L		93	75 - 125
Lead	<0.00021		0.500	0.480		mg/L		96	75 - 125
Lithium	<0.0020		0.500	0.476		mg/L		95	75 - 125
Molybdenum	<0.00086		0.100	0.0924		mg/L		92	75 - 125

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QC Sample Results

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

Job ID: 680-239031-1

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

Lab Sample ID: 680-239029-B-11-B MS
Matrix: Water
Analysis Batch: 793414

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 793258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	<0.00099		0.100	0.0968		mg/L		97	75 - 125
Thallium	<0.00026		0.0500	0.0465		mg/L		93	75 - 125

Lab Sample ID: 680-239029-B-11-C MSD
Matrix: Water
Analysis Batch: 793414

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 793258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	<0.00034		0.0500	0.0482		mg/L		96	75 - 125	2	20
Arsenic	<0.00086		0.100	0.0943		mg/L		94	75 - 125	1	20
Barium	0.062		0.100	0.156		mg/L		94	75 - 125	1	20
Beryllium	<0.00020		0.0500	0.0500		mg/L		100	75 - 125	1	20
Boron	<0.022		0.200	0.209		mg/L		105	75 - 125	4	20
Cadmium	<0.000078		0.0500	0.0469		mg/L		94	75 - 125	2	20
Calcium	5.7		5.00	10.0		mg/L		86	75 - 125	4	20
Chromium	<0.0012		0.100	0.103		mg/L		103	75 - 125	1	20
Cobalt	<0.00022		0.0500	0.0469		mg/L		94	75 - 125	1	20
Lead	<0.00021		0.500	0.482		mg/L		96	75 - 125	1	20
Lithium	<0.0020		0.500	0.479		mg/L		96	75 - 125	1	20
Molybdenum	<0.00086		0.100	0.0932		mg/L		93	75 - 125	1	20
Selenium	<0.00099		0.100	0.0993		mg/L		99	75 - 125	3	20
Thallium	<0.00026		0.0500	0.0462		mg/L		92	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-793887/1-A
Matrix: Water
Analysis Batch: 794093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 793887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/17/23 12:13	08/18/23 10:38	1

Lab Sample ID: LCS 680-793887/2-A
Matrix: Water
Analysis Batch: 794093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 793887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00249		mg/L		100	80 - 120

Lab Sample ID: 680-239029-B-22-C MS
Matrix: Water
Analysis Batch: 794093

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 793887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080	F1	0.00100	0.000566	F1	mg/L		57	80 - 120

QC Sample Results

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

Job ID: 680-239031-1

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

Lab Sample ID: 680-239029-B-22-D MSD
Matrix: Water
Analysis Batch: 794093

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 793887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080	F1	0.00100	0.000506	F1	mg/L		51	80 - 120	11	20

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-793747/1
Matrix: Water
Analysis Batch: 793747

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			08/16/23 16:13	1

Lab Sample ID: LCS 680-793747/2
Matrix: Water
Analysis Batch: 793747

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	2380	2370		mg/L		100	80 - 120

Lab Sample ID: LCSD 680-793747/3
Matrix: Water
Analysis Batch: 793747

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2380	2370		mg/L		99	80 - 120	0	25

Lab Sample ID: 680-239029-A-7 DU
Matrix: Water
Analysis Batch: 793747

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	330		334		mg/L		1	5

Lab Sample ID: MB 680-794055/1
Matrix: Water
Analysis Batch: 794055

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			08/18/23 12:06	1

Lab Sample ID: LCS 680-794055/2
Matrix: Water
Analysis Batch: 794055

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	2380	2380		mg/L		100	80 - 120

QC Sample Results

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

Job ID: 680-239031-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: LCSD 680-794055/3
Matrix: Water
Analysis Batch: 794055

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2380	2380		mg/L		100	80 - 120	0	25

Lab Sample ID: 680-239031-2 DU
Matrix: Water
Analysis Batch: 794055

Client Sample ID: WAN-WGWC-26D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	950		1050	F3	mg/L		10	5



QC Association Summary

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

Job ID: 680-239031-1

HPLC/IC

Analysis Batch: 793810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239031-1	WAN-WGWC-20	Total/NA	Water	300.0-1993 R2.1	
680-239031-2	WAN-WGWC-26D	Total/NA	Water	300.0-1993 R2.1	
680-239031-3	WAN-WGWC-27	Total/NA	Water	300.0-1993 R2.1	
MB 680-793810/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-793810/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-793810/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
752-10489-C-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
752-10489-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 793258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239031-1	WAN-WGWC-20	Total Recoverable	Water	3005A	
680-239031-2	WAN-WGWC-26D	Total Recoverable	Water	3005A	
680-239031-3	WAN-WGWC-27	Total Recoverable	Water	3005A	
MB 680-793258/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-793258/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-239029-B-11-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-239029-B-11-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 793414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239031-1	WAN-WGWC-20	Total Recoverable	Water	6020B	793258
680-239031-2	WAN-WGWC-26D	Total Recoverable	Water	6020B	793258
680-239031-3	WAN-WGWC-27	Total Recoverable	Water	6020B	793258
MB 680-793258/1-A	Method Blank	Total Recoverable	Water	6020B	793258
LCS 680-793258/2-A	Lab Control Sample	Total Recoverable	Water	6020B	793258
680-239029-B-11-B MS	Matrix Spike	Total Recoverable	Water	6020B	793258
680-239029-B-11-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	793258

Prep Batch: 793887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239031-1	WAN-WGWC-20	Total/NA	Water	7470A	
680-239031-2	WAN-WGWC-26D	Total/NA	Water	7470A	
680-239031-3	WAN-WGWC-27	Total/NA	Water	7470A	
MB 680-793887/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-793887/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-239029-B-22-C MS	Matrix Spike	Total/NA	Water	7470A	
680-239029-B-22-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 794093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239031-1	WAN-WGWC-20	Total/NA	Water	7470A	793887
680-239031-2	WAN-WGWC-26D	Total/NA	Water	7470A	793887
680-239031-3	WAN-WGWC-27	Total/NA	Water	7470A	793887
MB 680-793887/1-A	Method Blank	Total/NA	Water	7470A	793887
LCS 680-793887/2-A	Lab Control Sample	Total/NA	Water	7470A	793887
680-239029-B-22-C MS	Matrix Spike	Total/NA	Water	7470A	793887
680-239029-B-22-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	793887

QC Association Summary

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

Job ID: 680-239031-1

General Chemistry

Analysis Batch: 793747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239031-1	WAN-WGWC-20	Total/NA	Water	2540C-2011	
MB 680-793747/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-793747/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-793747/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-239029-A-7 DU	Duplicate	Total/NA	Water	2540C-2011	

Analysis Batch: 794055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239031-2	WAN-WGWC-26D	Total/NA	Water	2540C-2011	
680-239031-3	WAN-WGWC-27	Total/NA	Water	2540C-2011	
MB 680-794055/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-794055/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-794055/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-239031-2 DU	WAN-WGWC-26D	Total/NA	Water	2540C-2011	

Lab Chronicle

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

Job ID: 680-239031-1

Client Sample ID: WAN-WGWC-20

Lab Sample ID: 680-239031-1

Date Collected: 08/11/23 11:00

Matrix: Water

Date Received: 08/12/23 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		2	5 mL	5 mL	793810	08/17/23 13:42	GE	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793258	08/14/23 08:09	RR	EET SAV
Total Recoverable	Analysis	6020B		1			793414	08/15/23 00:14	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	793887	08/17/23 12:13	DW	EET SAV
Total/NA	Analysis	7470A		1			794093	08/18/23 10:59	BCB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	793747	08/16/23 16:13	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-26D

Lab Sample ID: 680-239031-2

Date Collected: 08/11/23 10:05

Matrix: Water

Date Received: 08/12/23 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		2	5 mL	5 mL	793810	08/17/23 13:55	GE	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793258	08/14/23 08:09	RR	EET SAV
Total Recoverable	Analysis	6020B		1			793414	08/15/23 00:19	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	793887	08/17/23 12:13	DW	EET SAV
Total/NA	Analysis	7470A		1			794093	08/18/23 11:01	BCB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	794055	08/18/23 12:06	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-27

Lab Sample ID: 680-239031-3

Date Collected: 08/11/23 12:40

Matrix: Water

Date Received: 08/12/23 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	793810	08/17/23 14:08	GE	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793258	08/14/23 08:09	RR	EET SAV
Total Recoverable	Analysis	6020B		1			793414	08/15/23 00:23	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	793887	08/17/23 12:13	DW	EET SAV
Total/NA	Analysis	7470A		1			794093	08/18/23 11:02	BCB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	794055	08/18/23 12:06	PG	EET SAV
Instrument ID: NOEQUIP										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

Accreditation/Certification Summary

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

Job ID: 680-239031-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

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Method Summary

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

Job ID: 680-239031-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

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

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

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record



Client Information
 Client Contact: A Schm Hhar ACC
 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: 68027766
 SCS Contacts / Geosyntec Contacts
 Project Name: Plant Wansley Ash Pond
 Site: SSOW#:

Sampler: A Schm Hhar ACC
 Lab PM: Fuller, David
 E-Mail: david.fuller@eurofins.com
 Carrier Tracking No(s):
 Job #: 1 f 1
 Page: 1 of 1
 COC No:

Due Date Requested:
 TAT Requested (days):
Standard
 Lab Project #:
68027766
 PO #:
 Project #:
 SCS Contacts / Geosyntec Contacts
 Project Name:
 Plant Wansley Ash Pond
 Site:
 SSOW#:

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=Comp, G=grab)	Matrix (W=ground water, WS=surface water, WC=quality control)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers
WAN- W6WC-20	08/11/23	1100	G	WG		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	App III Metals: B, Ca Cl, F, SO & TDS (EPA 300 & SM 2540C) App IV Metals (EPA 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl Radium 226 & 228 (SW-846 9315/9320) Major Ions - Carbonate, Bicarbonate, Total Alkalinity Major Ions - Sulfide Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	5
WAN- W6WC-26D	08/11/23	1005	G	WG		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		5
WAN- W6WC-27	08/11/23	1246	G	WG		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		5
WAN-			G			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
WAN-			G			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
WAN-			G			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
WAN-			G			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
WAN-			G			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
WAN-			G			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
WAN-			G			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		



Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify):
 Special Instructions/QC Requirements:
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 8/11/23 15:06 Company: Acc
 Relinquished by: _____ Date/Time: 8/11/23 16:00 Company: Cur
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: 3.2/3.3

Task Code: WAN-CCR-ASSMT-2023S2
 Special Instructions/Note: Full APP III and APP IV
 Preservation Codes:
 A - HCL M - Hexane
 B - NaOH N - None
 C - Zn Acetate O - AsNaO2
 D - Nitric Acid P - Na2O4S
 E - NaHSO4 Q - Na2SO3
 F - MeOH R - Na2S2O3
 G - Amehlor S - H2SO4
 H - Ascorbic Acid T - TSP Dodecahydrate
 I - Ice U - Acetone
 J - DI Water V - MCAA
 K - EDTA W - pH 4.5
 L - EDTA Z - other (specify)
 Other:
 Method of Shipment: _____
 Date/Time: 8/11/23 15:06 Company: Cur
 Date/Time: 8/11/23 08:00 Company: Eurofins

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-239031-1

Login Number: 239031

List Number: 1

Creator: Munro, Caroline

List Source: Eurofins Savannah

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/14/2023 3:58:17 PM

JOB DESCRIPTION

Plant Wansley - Ash Pond

JOB NUMBER

680-239031-2

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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9/14/2023 3:58:17 PM

Definitions/Glossary

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

Job ID: 680-239031-2

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

Sample Summary

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

Job ID: 680-239031-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-239031-1	WAN-WGWC-20	Water	08/11/23 11:00	08/12/23 12:14
680-239031-2	WAN-WGWC-26D	Water	08/11/23 10:05	08/12/23 12:14
680-239031-3	WAN-WGWC-27	Water	08/11/23 12:40	08/12/23 12:14

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Case Narrative

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

Job ID: 680-239031-2

Job ID: 680-239031-2

Laboratory: Eurofins Savannah

Narrative

**Job Narrative
680-239031-2**

Receipt

The samples were received on 8/12/2023 12:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 prep batch 160-624325: 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. WAN-WGWC-20 (680-239031-1), WAN-WGWC-26D (680-239031-2), WAN-WGWC-27 (680-239031-3), (LCS 160-624325/2-A), (MB 160-624325/1-A), (380-58521-A-1-A) and (380-58521-A-1-F DU)

Method 9320_Ra228: Radium-228 batch 624326 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. WAN-WGWC-20 (680-239031-1), WAN-WGWC-26D (680-239031-2), WAN-WGWC-27 (680-239031-3), (LCS 160-624326/2-A), (MB 160-624326/1-A), (380-58521-A-1-C) and (380-58521-A-1-D DU)

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

Rad

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



Client Sample Results

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

Job ID: 680-239031-2

Client Sample ID: WAN-WGWC-20

Lab Sample ID: 680-239031-1

Date Collected: 08/11/23 11:00

Matrix: Water

Date Received: 08/12/23 12:14

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.123	U	0.0949	0.0956	1.00	0.141	pCi/L	08/16/23 10:01	09/07/23 09:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.7		30 - 110					08/16/23 10:01	09/07/23 09:41	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.467	U	0.396	0.398	1.00	0.621	pCi/L	08/16/23 10:10	08/31/23 11:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.7		30 - 110					08/16/23 10:10	08/31/23 11:46	1
Y Carrier	83.4		30 - 110					08/16/23 10:10	08/31/23 11:46	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.591	U	0.407	0.409	2.00	0.621	pCi/L		09/13/23 16:33	1

Client Sample ID: WAN-WGWC-26D

Lab Sample ID: 680-239031-2

Date Collected: 08/11/23 10:05

Matrix: Water

Date Received: 08/12/23 12:14

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	2.11		0.264	0.325	1.00	0.128	pCi/L	08/16/23 10:01	09/07/23 09:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/16/23 10:01	09/07/23 09:41	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	2.72		0.591	0.642	1.00	0.557	pCi/L	08/16/23 10:10	08/31/23 11:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/16/23 10:10	08/31/23 11:46	1
Y Carrier	78.5		30 - 110					08/16/23 10:10	08/31/23 11:46	1

Client Sample Results

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

Job ID: 680-239031-2

Client Sample ID: WAN-WGWC-26D

Lab Sample ID: 680-239031-2

Date Collected: 08/11/23 10:05

Matrix: Water

Date Received: 08/12/23 12:14

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	4.83		0.647	0.720	2.00	0.557	pCi/L		09/13/23 16:33	1

Client Sample ID: WAN-WGWC-27

Lab Sample ID: 680-239031-3

Date Collected: 08/11/23 12:40

Matrix: Water

Date Received: 08/12/23 12:14

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.24		0.210	0.238	1.00	0.123	pCi/L	08/16/23 10:01	09/07/23 09:41	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	91.0		30 - 110					08/16/23 10:01	09/07/23 09:41	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.64		0.602	0.649	1.00	0.613	pCi/L	08/16/23 10:10	08/31/23 11:46	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	91.0		30 - 110					08/16/23 10:10	08/31/23 11:46	1
Y Carrier	78.9		30 - 110					08/16/23 10:10	08/31/23 11:46	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.88		0.638	0.691	2.00	0.613	pCi/L		09/13/23 16:33	1

Tracer/Carrier Summary

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

Job ID: 680-239031-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
380-58521-A-1-F DU	Duplicate	78.4	
680-239031-1	WAN-WGWC-20	85.7	
680-239031-2	WAN-WGWC-26D	92.0	
680-239031-3	WAN-WGWC-27	91.0	
LCS 160-624325/2-A	Lab Control Sample	93.7	
MB 160-624325/1-A	Method Blank	89.7	
Tracer/Carrier Legend			
Ba = Ba Carrier			

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
380-58521-A-1-D DU	Duplicate	78.4	78.9
680-239031-1	WAN-WGWC-20	85.7	83.4
680-239031-2	WAN-WGWC-26D	92.0	78.5
680-239031-3	WAN-WGWC-27	91.0	78.9
LCS 160-624326/2-A	Lab Control Sample	93.7	80.7
MB 160-624326/1-A	Method Blank	89.7	76.6
Tracer/Carrier Legend			
Ba = Ba Carrier			
Y = Y Carrier			

QC Sample Results

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

Job ID: 680-239031-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-624325/1-A
Matrix: Water
Analysis Batch: 627054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624325

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02900	U	0.0526	0.0526	1.00	0.0945	pCi/L	08/16/23 10:01	09/07/23 09:35	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	89.7		30 - 110		08/16/23 10:01	09/07/23 09:35	1			

Lab Sample ID: LCS 160-624325/2-A
Matrix: Water
Analysis Batch: 627054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624325

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.20		1.08	1.00	0.0969	pCi/L	90	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	93.7		30 - 110						

Lab Sample ID: 380-58521-A-1-F DU
Matrix: Water
Analysis Batch: 627055

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 624325

Analyte	Sample		DU		Total	RL	MDC	Unit	RER	Limit
	Result	Sample Qual	Result	DU Qual	Uncert. (2σ+/-)					
Radium-226	0.345		0.3695		0.133	1.00	0.0721	pCi/L	0.09	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	78.4		30 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-624326/1-A
Matrix: Water
Analysis Batch: 626294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624326

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4450	U	0.410	0.412	1.00	0.653	pCi/L	08/16/23 10:10	08/31/23 11:42	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	89.7		30 - 110		08/16/23 10:10	08/31/23 11:42	1			
Y Carrier	76.6		30 - 110		08/16/23 10:10	08/31/23 11:42	1			

QC Sample Results

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

Job ID: 680-239031-2

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

Lab Sample ID: LCS 160-624326/2-A
Matrix: Water
Analysis Batch: 626294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624326

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

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	93.7		30 - 110
Y Carrier	80.7		30 - 110

Lab Sample ID: 380-58521-A-1-D DU
Matrix: Water
Analysis Batch: 626304

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 624326

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit

Carrier	DU		Limits
	%Yield	Qualifier	
Ba Carrier	78.4		30 - 110
Y Carrier	78.9		30 - 110

QC Association Summary

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

Job ID: 680-239031-2

Rad

Prep Batch: 624325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239031-1	WAN-WGWC-20	Total/NA	Water	PrecSep-21	
680-239031-2	WAN-WGWC-26D	Total/NA	Water	PrecSep-21	
680-239031-3	WAN-WGWC-27	Total/NA	Water	PrecSep-21	
MB 160-624325/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-624325/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
380-58521-A-1-F DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 624326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239031-1	WAN-WGWC-20	Total/NA	Water	PrecSep_0	
680-239031-2	WAN-WGWC-26D	Total/NA	Water	PrecSep_0	
680-239031-3	WAN-WGWC-27	Total/NA	Water	PrecSep_0	
MB 160-624326/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-624326/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
380-58521-A-1-D DU	Duplicate	Total/NA	Water	PrecSep_0	

Lab Chronicle

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

Job ID: 680-239031-2

Client Sample ID: WAN-WGWC-20

Lab Sample ID: 680-239031-1

Date Collected: 08/11/23 11:00

Matrix: Water

Date Received: 08/12/23 12:14

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			996.24 mL	1.0 g	624325	08/16/23 10:01	KAC	EET SL
Total/NA	Analysis	9315		1			627058	09/07/23 09:41	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			996.24 mL	1.0 g	624326	08/16/23 10:10	KAC	EET SL
Total/NA	Analysis	9320		1			626304	08/31/23 11:46	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			627950	09/13/23 16:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-26D

Lab Sample ID: 680-239031-2

Date Collected: 08/11/23 10:05

Matrix: Water

Date Received: 08/12/23 12:14

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			996.87 mL	1.0 g	624325	08/16/23 10:01	KAC	EET SL
Total/NA	Analysis	9315		1			627058	09/07/23 09:41	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			996.87 mL	1.0 g	624326	08/16/23 10:10	KAC	EET SL
Total/NA	Analysis	9320		1			626304	08/31/23 11:46	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			627950	09/13/23 16:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-27

Lab Sample ID: 680-239031-3

Date Collected: 08/11/23 12:40

Matrix: Water

Date Received: 08/12/23 12:14

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			998.45 mL	1.0 g	624325	08/16/23 10:01	KAC	EET SL
Total/NA	Analysis	9315		1			627058	09/07/23 09:41	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			998.45 mL	1.0 g	624326	08/16/23 10:10	KAC	EET SL
Total/NA	Analysis	9320		1			626304	08/31/23 11:46	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			627950	09/13/23 16:33	FLC	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 680-239031-2

Laboratory: Eurofins St. Louis

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87689	06-30-24

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Method Summary

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

Job ID: 680-239031-2

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

Protocol References:

None = None

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

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

Laboratory References:

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



5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record



Client Information
 Client Contact: A Schm Hhar ACC
 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: 68027766
 SCS Contacts / Geosyntec Contacts
 Project Name: Plant Wansley Ash Pond
 Site: SSOW#:

Sampler: A Schm Hhar ACC
 Lab PM: Fuller, David
 E-Mail: david.fuller@eurofins.com
 Carrier Tracking No(s):
 Job #: 1 of 1
 COC No:

Due Date Requested:
 TAT Requested (days):
Standard
 Lab Project #:
68027766
 PO #:
 Project #:
 SCS Contacts / Geosyntec Contacts
 Project Name:
 Plant Wansley Ash Pond
 Site:
 SSOW#:

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=Comp, G=grab)	Matrix (W=ground water, WS=surface water, WC=quality control)	Preservation Code:	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)	App IV Metals (EPA 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl	Radium 226 & 228 (SW-846 9315/9320)	Major Ions - Carbonate, Bicarbonate, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers
WAN- W6WC-20	08/11/23	1100	G	WG		X	X	D	I	D	D	I	B, C	D	5
WAN- W6WC-26D	08/11/23	1005	G	WG		X	X	V	V	V	V				5
WAN- W6WC-27	08/11/23	1246	G	WG		X	X	V	V	V	V				5
WAN-			G			N	N								
WAN-			G			N	N								
WAN-			G			N	N								
WAN-			G			N	N								
WAN-			G			N	N								
WAN-			G			N	N								
WAN-			G			N	N								



Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify):
 Special Instructions/QC Requirements:
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 8/11/23 15:06 Company: MEC
 Relinquished by: _____ Date/Time: 8/11/23 16:00 Company: Cur
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks: 3.2/3.3
 Received by: _____ Date/Time: 8/11/23 15:06 Company: Cur
 Received by: _____ Date/Time: 8/11/23 08:00 Company: Eurofins

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-239031-2

Login Number: 239031

List Number: 1

Creator: Munro, Caroline

List Source: Eurofins Savannah

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-239031-2

Login Number: 239031

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 08/15/23 10:40 AM

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



 **ANALYTICAL REPORT****PREPARED FOR**

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

Generated 8/28/2023 10:03:46 AM

JOB DESCRIPTION

Plant Wansley Ash Pond

JOB NUMBER

680-239236-1

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
8/28/2023 10:03:46 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

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

Job ID: 680-239236-1

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.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

Sample Summary

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

Job ID: 680-239236-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-239236-1	WAN-WGWA-1	Water	08/14/23 16:01	08/17/23 09:00
680-239236-2	WAN-WGWA-2	Water	08/14/23 14:23	08/17/23 09:00
680-239236-3	WAN-WGWA-3	Water	08/15/23 10:28	08/17/23 09:00
680-239236-4	WAN-WGWA-4	Water	08/15/23 11:51	08/17/23 09:00
680-239236-5	WAN-WGWA-5	Water	08/15/23 15:16	08/17/23 09:00
680-239236-6	WAN-WGWA-6	Water	08/15/23 11:10	08/17/23 09:00
680-239236-7	WAN-WGWA-7	Water	08/15/23 13:50	08/17/23 09:00
680-239236-8	WAN-WGWA-18	Water	08/15/23 14:15	08/17/23 09:00
680-239236-9	WAN-WGWC-8	Water	08/15/23 17:07	08/17/23 09:00
680-239236-10	WAN-WGWC-16	Water	08/15/23 15:56	08/17/23 09:00
680-239236-11	WAN-WGWC-25	Water	08/15/23 17:50	08/17/23 09:00
680-239236-12	WAN-AP1-FD-02	Water	08/15/23 00:00	08/17/23 09:00
680-239236-13	WAN-AP1-FB-07	Water	08/15/23 17:30	08/17/23 09:00

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Case Narrative

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

Job ID: 680-239236-1

Job ID: 680-239236-1

Laboratory: Eurofins Savannah

Narrative

**Job Narrative
680-239236-1**

Receipt

The samples were received on 8/17/2023 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 5 coolers at receipt time were 2.0°C, 2.4°C, 2.9°C, 3.3°C and 3.7°C

HPLC/IC

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

Metals

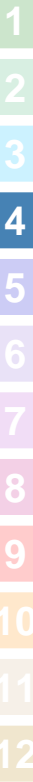
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 2540C: A lesser volume of sample was used for the following samples due to the nature of the sample matrix resulting in elevated reporting limits: WAN-WGWC-8 (680-239236-9), WAN-WGWC-16 (680-239236-10), WAN-WGWC-25 (680-239236-11) and WAN-AP1-FD-02 (680-239236-12).

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-794055 was outside control limits: (680-239031-C-2 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

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



Client Sample Results

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

Job ID: 680-239236-1

Client Sample ID: WAN-WGWA-1

Lab Sample ID: 680-239236-1

Date Collected: 08/14/23 16:01

Matrix: Water

Date Received: 08/17/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.8		1.0	0.20	mg/L			08/22/23 14:08	1
Fluoride	<0.040		0.10	0.040	mg/L			08/22/23 14:08	1
Sulfate	<0.40		1.0	0.40	mg/L			08/22/23 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/18/23 07:05	08/18/23 19:15	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/18/23 07:05	08/18/23 19:15	1
Barium	0.050		0.010	0.00089	mg/L		08/18/23 07:05	08/18/23 19:15	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/18/23 07:05	08/18/23 19:15	1
Boron	<0.022		0.080	0.022	mg/L		08/18/23 07:05	08/18/23 19:15	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/18/23 07:05	08/18/23 19:15	1
Calcium	1.5		0.50	0.14	mg/L		08/18/23 07:05	08/18/23 19:15	1
Chromium	0.0012	J	0.0020	0.0012	mg/L		08/18/23 07:05	08/18/23 19:15	1
Cobalt	0.00087	J	0.0025	0.00022	mg/L		08/18/23 07:05	08/18/23 19:15	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/18/23 07:05	08/18/23 19:15	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/18/23 07:05	08/18/23 19:15	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/18/23 07:05	08/18/23 19:15	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/18/23 07:05	08/18/23 19:15	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/18/23 07:05	08/18/23 19:15	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/21/23 12:16	08/22/23 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	37		10	10	mg/L			08/18/23 12:06	1

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-239236-2

Date Collected: 08/14/23 14:23

Matrix: Water

Date Received: 08/17/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.5		1.0	0.20	mg/L			08/22/23 14:46	1
Fluoride	0.061	J	0.10	0.040	mg/L			08/22/23 14:46	1
Sulfate	0.74	J	1.0	0.40	mg/L			08/22/23 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/18/23 07:05	08/18/23 19:19	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/18/23 07:05	08/18/23 19:19	1
Barium	0.025		0.010	0.00089	mg/L		08/18/23 07:05	08/18/23 19:19	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/18/23 07:05	08/18/23 19:19	1
Boron	<0.022		0.080	0.022	mg/L		08/18/23 07:05	08/18/23 19:19	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/18/23 07:05	08/18/23 19:19	1
Calcium	14		0.50	0.14	mg/L		08/18/23 07:05	08/18/23 19:19	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/18/23 07:05	08/18/23 19:19	1
Cobalt	0.00060	J	0.0025	0.00022	mg/L		08/18/23 07:05	08/18/23 19:19	1

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Client Sample Results

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

Job ID: 680-239236-1

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-239236-2

Date Collected: 08/14/23 14:23

Matrix: Water

Date Received: 08/17/23 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		08/18/23 07:05	08/18/23 19:19	1
Lithium	0.0026	J	0.0050	0.0020	mg/L		08/18/23 07:05	08/18/23 19:19	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/18/23 07:05	08/18/23 19:19	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/18/23 07:05	08/18/23 19:19	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/18/23 07:05	08/18/23 19:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/21/23 12:16	08/22/23 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	110		10	10	mg/L			08/18/23 12:06	1

Client Sample ID: WAN-WGWA-3

Lab Sample ID: 680-239236-3

Date Collected: 08/15/23 10:28

Matrix: Water

Date Received: 08/17/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.20	mg/L			08/22/23 14:58	1
Fluoride	0.040	J	0.10	0.040	mg/L			08/22/23 14:58	1
Sulfate	0.71	J	1.0	0.40	mg/L			08/22/23 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/18/23 07:05	08/18/23 19:23	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/18/23 07:05	08/18/23 19:23	1
Barium	0.014		0.010	0.00089	mg/L		08/18/23 07:05	08/18/23 19:23	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/18/23 07:05	08/18/23 19:23	1
Boron	<0.022		0.080	0.022	mg/L		08/18/23 07:05	08/18/23 19:23	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/18/23 07:05	08/18/23 19:23	1
Calcium	1.9		0.50	0.14	mg/L		08/18/23 07:05	08/18/23 19:23	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/18/23 07:05	08/18/23 19:23	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/18/23 07:05	08/18/23 19:23	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/18/23 07:05	08/18/23 19:23	1
Lithium	<0.00020		0.0050	0.0020	mg/L		08/18/23 07:05	08/18/23 19:23	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/18/23 07:05	08/18/23 19:23	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/18/23 07:05	08/18/23 19:23	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/18/23 07:05	08/18/23 19:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/21/23 12:16	08/22/23 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	34		10	10	mg/L			08/19/23 10:23	1

Client Sample Results

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

Job ID: 680-239236-1

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-239236-4

Date Collected: 08/15/23 11:51

Matrix: Water

Date Received: 08/17/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.20	mg/L			08/22/23 15:11	1
Fluoride	0.14		0.10	0.040	mg/L			08/22/23 15:11	1
Sulfate	7.4		1.0	0.40	mg/L			08/22/23 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/18/23 07:05	08/18/23 19:27	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/18/23 07:05	08/18/23 19:27	1
Barium	0.0055	J	0.010	0.00089	mg/L		08/18/23 07:05	08/18/23 19:27	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/18/23 07:05	08/18/23 19:27	1
Boron	<0.022		0.080	0.022	mg/L		08/18/23 07:05	08/18/23 19:27	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/18/23 07:05	08/18/23 19:27	1
Calcium	17		0.50	0.14	mg/L		08/18/23 07:05	08/18/23 19:27	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/18/23 07:05	08/18/23 19:27	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/18/23 07:05	08/18/23 19:27	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/18/23 07:05	08/18/23 19:27	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/18/23 07:05	08/18/23 19:27	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/18/23 07:05	08/18/23 19:27	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/18/23 07:05	08/18/23 19:27	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/18/23 07:05	08/18/23 19:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/21/23 12:16	08/22/23 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	110		10	10	mg/L			08/19/23 10:23	1

Client Sample ID: WAN-WGWA-5

Lab Sample ID: 680-239236-5

Date Collected: 08/15/23 15:16

Matrix: Water

Date Received: 08/17/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.20	mg/L			08/22/23 20:28	1
Fluoride	<0.040		0.10	0.040	mg/L			08/22/23 20:28	1
Sulfate	1.2		1.0	0.40	mg/L			08/22/23 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/18/23 07:05	08/18/23 19:31	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/18/23 07:05	08/18/23 19:31	1
Barium	0.016		0.010	0.00089	mg/L		08/18/23 07:05	08/18/23 19:31	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/18/23 07:05	08/18/23 19:31	1
Boron	<0.022		0.080	0.022	mg/L		08/18/23 07:05	08/18/23 19:31	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/18/23 07:05	08/18/23 19:31	1
Calcium	26		0.50	0.14	mg/L		08/18/23 07:05	08/18/23 19:31	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/18/23 07:05	08/18/23 19:31	1
Cobalt	0.00059	J	0.0025	0.00022	mg/L		08/18/23 07:05	08/18/23 19:31	1

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Client Sample Results

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

Job ID: 680-239236-1

Client Sample ID: WAN-WGWA-5

Lab Sample ID: 680-239236-5

Date Collected: 08/15/23 15:16

Matrix: Water

Date Received: 08/17/23 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		08/18/23 07:05	08/18/23 19:31	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/18/23 07:05	08/18/23 19:31	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/18/23 07:05	08/18/23 19:31	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/18/23 07:05	08/18/23 19:31	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/18/23 07:05	08/18/23 19:31	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/21/23 12:16	08/22/23 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	82		10	10	mg/L			08/19/23 10:23	1

Client Sample ID: WAN-WGWA-6

Lab Sample ID: 680-239236-6

Date Collected: 08/15/23 11:10

Matrix: Water

Date Received: 08/17/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.20	mg/L			08/22/23 21:06	1
Fluoride	0.12		0.10	0.040	mg/L			08/22/23 21:06	1
Sulfate	7.3		1.0	0.40	mg/L			08/22/23 21:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/18/23 07:05	08/18/23 19:36	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/18/23 07:05	08/18/23 19:36	1
Barium	0.0072	J	0.010	0.00089	mg/L		08/18/23 07:05	08/18/23 19:36	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/18/23 07:05	08/18/23 19:36	1
Boron	<0.022		0.080	0.022	mg/L		08/18/23 07:05	08/18/23 19:36	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/18/23 07:05	08/18/23 19:36	1
Calcium	27		0.50	0.14	mg/L		08/18/23 07:05	08/18/23 19:36	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/18/23 07:05	08/18/23 19:36	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/18/23 07:05	08/18/23 19:36	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/18/23 07:05	08/18/23 19:36	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/18/23 07:05	08/18/23 19:36	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/18/23 07:05	08/18/23 19:36	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/18/23 07:05	08/18/23 19:36	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/18/23 07:05	08/18/23 19:36	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/21/23 12:16	08/22/23 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	130		10	10	mg/L			08/19/23 10:23	1

Client Sample Results

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

Job ID: 680-239236-1

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-239236-7

Date Collected: 08/15/23 13:50

Matrix: Water

Date Received: 08/17/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.20	mg/L			08/22/23 21:18	1
Fluoride	<0.040		0.10	0.040	mg/L			08/22/23 21:18	1
Sulfate	0.45	J	1.0	0.40	mg/L			08/22/23 21:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/18/23 07:05	08/18/23 19:40	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/18/23 07:05	08/18/23 19:40	1
Barium	0.013		0.010	0.00089	mg/L		08/18/23 07:05	08/18/23 19:40	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/18/23 07:05	08/18/23 19:40	1
Boron	<0.022		0.080	0.022	mg/L		08/18/23 07:05	08/18/23 19:40	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/18/23 07:05	08/18/23 19:40	1
Calcium	1.8		0.50	0.14	mg/L		08/18/23 07:05	08/18/23 19:40	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/18/23 07:05	08/18/23 19:40	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/18/23 07:05	08/18/23 19:40	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/18/23 07:05	08/18/23 19:40	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/18/23 07:05	08/18/23 19:40	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/18/23 07:05	08/18/23 19:40	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/18/23 07:05	08/18/23 19:40	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/18/23 07:05	08/18/23 19:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/21/23 12:16	08/22/23 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	29		10	10	mg/L			08/19/23 10:23	1

Client Sample ID: WAN-WGWA-18

Lab Sample ID: 680-239236-8

Date Collected: 08/15/23 14:15

Matrix: Water

Date Received: 08/17/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.20	mg/L			08/22/23 21:31	1
Fluoride	0.051	J	0.10	0.040	mg/L			08/22/23 21:31	1
Sulfate	6.8		1.0	0.40	mg/L			08/22/23 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/18/23 07:05	08/18/23 19:44	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/18/23 07:05	08/18/23 19:44	1
Barium	0.016		0.010	0.00089	mg/L		08/18/23 07:05	08/18/23 19:44	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/18/23 07:05	08/18/23 19:44	1
Boron	<0.022		0.080	0.022	mg/L		08/18/23 07:05	08/18/23 19:44	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/18/23 07:05	08/18/23 19:44	1
Calcium	8.3		0.50	0.14	mg/L		08/18/23 07:05	08/18/23 19:44	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/18/23 07:05	08/18/23 19:44	1
Cobalt	0.00075	J	0.0025	0.00022	mg/L		08/18/23 07:05	08/18/23 19:44	1

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Client Sample Results

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

Job ID: 680-239236-1

Client Sample ID: WAN-WGWA-18

Lab Sample ID: 680-239236-8

Date Collected: 08/15/23 14:15

Matrix: Water

Date Received: 08/17/23 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		08/18/23 07:05	08/18/23 19:44	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/18/23 07:05	08/18/23 19:44	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/18/23 07:05	08/18/23 19:44	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/18/23 07:05	08/18/23 19:44	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/18/23 07:05	08/18/23 19:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/21/23 12:16	08/22/23 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	56		10	10	mg/L			08/19/23 10:23	1

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-239236-9

Date Collected: 08/15/23 17:07

Matrix: Water

Date Received: 08/17/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		2.0	0.40	mg/L			08/22/23 21:44	2
Fluoride	0.15	J	0.20	0.080	mg/L			08/22/23 21:44	2
Sulfate	240		2.0	0.80	mg/L			08/22/23 21:44	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0079		0.0020	0.00034	mg/L		08/18/23 07:05	08/18/23 19:48	1
Arsenic	0.00087	J	0.0010	0.00086	mg/L		08/18/23 07:05	08/18/23 19:48	1
Barium	0.0019	J	0.010	0.00089	mg/L		08/18/23 07:05	08/18/23 19:48	1
Beryllium	0.0024	J	0.0025	0.00020	mg/L		08/18/23 07:05	08/18/23 19:48	1
Boron	2.8		0.080	0.022	mg/L		08/18/23 07:05	08/18/23 19:48	1
Cadmium	0.00013	J	0.0025	0.000078	mg/L		08/18/23 07:05	08/18/23 19:48	1
Calcium	96		0.50	0.14	mg/L		08/18/23 07:05	08/18/23 19:48	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/18/23 07:05	08/18/23 19:48	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/18/23 07:05	08/18/23 19:48	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/18/23 07:05	08/18/23 19:48	1
Lithium	0.0084		0.0050	0.0020	mg/L		08/18/23 07:05	08/18/23 19:48	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/18/23 07:05	08/18/23 19:48	1
Selenium	0.0037	J	0.0050	0.00099	mg/L		08/18/23 07:05	08/18/23 19:48	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/18/23 07:05	08/18/23 19:48	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/21/23 12:16	08/22/23 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	680		40	40	mg/L			08/19/23 10:23	1

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Client Sample Results

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

Job ID: 680-239236-1

Client Sample ID: WAN-WGWC-16

Lab Sample ID: 680-239236-10

Date Collected: 08/15/23 15:56

Matrix: Water

Date Received: 08/17/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34		1.0	0.20	mg/L			08/22/23 21:56	1
Fluoride	0.065	J	0.10	0.040	mg/L			08/22/23 21:56	1
Sulfate	52		1.0	0.40	mg/L			08/22/23 21:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/18/23 07:05	08/18/23 19:52	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/18/23 07:05	08/18/23 19:52	1
Barium	0.039		0.010	0.00089	mg/L		08/18/23 07:05	08/18/23 19:52	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/18/23 07:05	08/18/23 19:52	1
Boron	0.81		0.080	0.022	mg/L		08/18/23 07:05	08/18/23 19:52	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/18/23 07:05	08/18/23 19:52	1
Calcium	23		0.50	0.14	mg/L		08/18/23 07:05	08/18/23 19:52	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/18/23 07:05	08/18/23 19:52	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/18/23 07:05	08/18/23 19:52	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/18/23 07:05	08/18/23 19:52	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/18/23 07:05	08/18/23 19:52	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/18/23 07:05	08/18/23 19:52	1
Selenium	0.0018	J	0.0050	0.00099	mg/L		08/18/23 07:05	08/18/23 19:52	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/18/23 07:05	08/18/23 19:52	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/21/23 12:16	08/22/23 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	160		40	40	mg/L			08/19/23 10:23	1

Client Sample ID: WAN-WGWC-25

Lab Sample ID: 680-239236-11

Date Collected: 08/15/23 17:50

Matrix: Water

Date Received: 08/17/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35		1.0	0.20	mg/L			08/22/23 22:09	1
Fluoride	0.049	J	0.10	0.040	mg/L			08/22/23 22:09	1
Sulfate	19		1.0	0.40	mg/L			08/22/23 22:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/18/23 07:05	08/18/23 20:04	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/18/23 07:05	08/18/23 20:04	1
Barium	0.19		0.010	0.00089	mg/L		08/18/23 07:05	08/18/23 20:04	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/18/23 07:05	08/18/23 20:04	1
Boron	0.57		0.080	0.022	mg/L		08/18/23 07:05	08/18/23 20:04	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/18/23 07:05	08/18/23 20:04	1
Calcium	28		0.50	0.14	mg/L		08/18/23 07:05	08/18/23 20:04	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/18/23 07:05	08/18/23 20:04	1
Cobalt	0.0081		0.0025	0.00022	mg/L		08/18/23 07:05	08/18/23 20:04	1

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Client Sample Results

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

Job ID: 680-239236-1

Client Sample ID: WAN-WGWC-25

Lab Sample ID: 680-239236-11

Date Collected: 08/15/23 17:50

Matrix: Water

Date Received: 08/17/23 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		08/18/23 07:05	08/18/23 20:04	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/18/23 07:05	08/18/23 20:04	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/18/23 07:05	08/18/23 20:04	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/18/23 07:05	08/18/23 20:04	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/18/23 07:05	08/18/23 20:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/21/23 12:16	08/22/23 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	180		40	40	mg/L			08/19/23 10:23	1

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-239236-12

Date Collected: 08/15/23 00:00

Matrix: Water

Date Received: 08/17/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34		1.0	0.20	mg/L			08/22/23 22:22	1
Fluoride	0.066	J	0.10	0.040	mg/L			08/22/23 22:22	1
Sulfate	52		1.0	0.40	mg/L			08/22/23 22:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/18/23 07:05	08/18/23 20:08	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/18/23 07:05	08/18/23 20:08	1
Barium	0.037		0.010	0.00089	mg/L		08/18/23 07:05	08/18/23 20:08	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/18/23 07:05	08/18/23 20:08	1
Boron	0.77		0.080	0.022	mg/L		08/18/23 07:05	08/18/23 20:08	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/18/23 07:05	08/18/23 20:08	1
Calcium	23		0.50	0.14	mg/L		08/18/23 07:05	08/18/23 20:08	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/18/23 07:05	08/18/23 20:08	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/18/23 07:05	08/18/23 20:08	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/18/23 07:05	08/18/23 20:08	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/18/23 07:05	08/18/23 20:08	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/18/23 07:05	08/18/23 20:08	1
Selenium	0.0017	J	0.0050	0.00099	mg/L		08/18/23 07:05	08/18/23 20:08	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/18/23 07:05	08/18/23 20:08	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/21/23 12:16	08/22/23 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	170		40	40	mg/L			08/19/23 10:23	1

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Client Sample Results

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

Job ID: 680-239236-1

Client Sample ID: WAN-AP1-FB-07

Lab Sample ID: 680-239236-13

Date Collected: 08/15/23 17:30

Matrix: Water

Date Received: 08/17/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	J	1.0	0.20	mg/L			08/22/23 22:34	1
Fluoride	0.40		0.10	0.040	mg/L			08/22/23 22:34	1
Sulfate	<0.40		1.0	0.40	mg/L			08/22/23 22:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/18/23 07:05	08/18/23 20:12	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/18/23 07:05	08/18/23 20:12	1
Barium	<0.00089		0.010	0.00089	mg/L		08/18/23 07:05	08/18/23 20:12	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/18/23 07:05	08/18/23 20:12	1
Boron	0.026	J	0.080	0.022	mg/L		08/18/23 07:05	08/18/23 20:12	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/18/23 07:05	08/18/23 20:12	1
Calcium	<0.14		0.50	0.14	mg/L		08/18/23 07:05	08/18/23 20:12	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/18/23 07:05	08/18/23 20:12	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/18/23 07:05	08/18/23 20:12	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/18/23 07:05	08/18/23 20:12	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/18/23 07:05	08/18/23 20:12	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/18/23 07:05	08/18/23 20:12	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/18/23 07:05	08/18/23 20:12	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/18/23 07:05	08/18/23 20:12	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/21/23 12:16	08/22/23 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			08/19/23 10:23	1

QC Sample Results

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

Job ID: 680-239236-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-794490/2
Matrix: Water
Analysis Batch: 794490

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.20		1.0	0.20	mg/L			08/22/23 10:20	1
Fluoride	<0.040		0.10	0.040	mg/L			08/22/23 10:20	1
Sulfate	<0.40		1.0	0.40	mg/L			08/22/23 10:20	1

Lab Sample ID: LCS 680-794490/4
Matrix: Water
Analysis Batch: 794490

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	2.00	1.99		mg/L		100	90 - 110
Sulfate	10.0	9.74		mg/L		97	90 - 110

Lab Sample ID: LCSD 680-794490/5
Matrix: Water
Analysis Batch: 794490

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	2.00	1.99		mg/L		99	90 - 110	0	15
Sulfate	10.0	9.74		mg/L		97	90 - 110	0	15

Lab Sample ID: 680-239236-1 MS
Matrix: Water
Analysis Batch: 794490

Client Sample ID: WAN-WGWA-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	<0.040		2.00	1.97		mg/L		98	80 - 120
Sulfate	<0.40		10.0	9.58		mg/L		96	80 - 120

Lab Sample ID: 680-239236-1 MSD
Matrix: Water
Analysis Batch: 794490

Client Sample ID: WAN-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
Fluoride	<0.040		2.00	2.05		mg/L		103	80 - 120	4	15
Sulfate	<0.40		10.0	9.98		mg/L		100	80 - 120	4	15

Lab Sample ID: MB 680-794491/33
Matrix: Water
Analysis Batch: 794491

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.20		1.0	0.20	mg/L			08/22/23 16:52	1
Fluoride	<0.040		0.10	0.040	mg/L			08/22/23 16:52	1
Sulfate	<0.40		1.0	0.40	mg/L			08/22/23 16:52	1

QC Sample Results

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

Job ID: 680-239236-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-794491/34
Matrix: Water
Analysis Batch: 794491

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	10.0	9.63		mg/L		96	90 - 110	
Fluoride	2.00	2.00		mg/L		100	90 - 110	
Sulfate	10.0	9.57		mg/L		96	90 - 110	

Lab Sample ID: LCSD 680-794491/35
Matrix: Water
Analysis Batch: 794491

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
Chloride	10.0	9.63		mg/L		96	90 - 110	0	15	
Fluoride	2.00	2.00		mg/L		100	90 - 110	0	15	
Sulfate	10.0	9.61		mg/L		96	90 - 110	0	15	

Lab Sample ID: 680-239236-5 MS
Matrix: Water
Analysis Batch: 794491

Client Sample ID: WAN-WGWA-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	1.2		10.0	10.2		mg/L		90	80 - 120	
Fluoride	<0.040		2.00	1.95		mg/L		98	80 - 120	
Sulfate	1.2		10.0	10.6		mg/L		94	80 - 120	

Lab Sample ID: 680-239236-5 MSD
Matrix: Water
Analysis Batch: 794491

Client Sample ID: WAN-WGWA-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
Chloride	1.2		10.0	10.5		mg/L		94	80 - 120	3	15	
Fluoride	<0.040		2.00	2.04		mg/L		102	80 - 120	4	15	
Sulfate	1.2		10.0	11.0		mg/L		98	80 - 120	4	15	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-793975/1-A
Matrix: Water
Analysis Batch: 794146

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793975

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00034		0.0020	0.00034	mg/L		08/18/23 07:05	08/18/23 18:26	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/18/23 07:05	08/18/23 18:26	1
Barium	<0.00089		0.010	0.00089	mg/L		08/18/23 07:05	08/18/23 18:26	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/18/23 07:05	08/18/23 18:26	1
Boron	<0.022		0.080	0.022	mg/L		08/18/23 07:05	08/18/23 18:26	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/18/23 07:05	08/18/23 18:26	1
Calcium	<0.14		0.50	0.14	mg/L		08/18/23 07:05	08/18/23 18:26	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/18/23 07:05	08/18/23 18:26	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/18/23 07:05	08/18/23 18:26	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/18/23 07:05	08/18/23 18:26	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/18/23 07:05	08/18/23 18:26	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/18/23 07:05	08/18/23 18:26	1

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QC Sample Results

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

Job ID: 680-239236-1

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

Lab Sample ID: MB 680-793975/1-A
Matrix: Water
Analysis Batch: 794146

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00099		0.0050	0.00099	mg/L		08/18/23 07:05	08/18/23 18:26	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/18/23 07:05	08/18/23 18:26	1

Lab Sample ID: LCS 680-793975/2-A
Matrix: Water
Analysis Batch: 794146

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 793975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0508		mg/L		102	80 - 120
Arsenic	0.100	0.104		mg/L		104	80 - 120
Barium	0.100	0.100		mg/L		100	80 - 120
Beryllium	0.0500	0.0476		mg/L		95	80 - 120
Boron	0.200	0.193		mg/L		96	80 - 120
Cadmium	0.0500	0.0506		mg/L		101	80 - 120
Calcium	5.00	5.12		mg/L		102	80 - 120
Chromium	0.100	0.0991		mg/L		99	80 - 120
Cobalt	0.0500	0.0540		mg/L		108	80 - 120
Lead	0.500	0.507		mg/L		101	80 - 120
Lithium	0.500	0.470		mg/L		94	80 - 120
Molybdenum	0.100	0.105		mg/L		105	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120
Thallium	0.0500	0.0478		mg/L		96	80 - 120

Lab Sample ID: 680-239233-B-18-B MS
Matrix: Water
Analysis Batch: 794146

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 793975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00034		0.0500	0.0490		mg/L		98	75 - 125
Arsenic	<0.00086		0.100	0.0998		mg/L		100	75 - 125
Barium	0.014		0.100	0.107		mg/L		93	75 - 125
Beryllium	<0.00020		0.0500	0.0473		mg/L		95	75 - 125
Boron	<0.022		0.200	0.196		mg/L		98	75 - 125
Cadmium	<0.000078		0.0500	0.0495		mg/L		99	75 - 125
Calcium	3.5		5.00	8.00		mg/L		90	75 - 125
Chromium	<0.0012		0.100	0.0942		mg/L		94	75 - 125
Cobalt	<0.00022		0.0500	0.0520		mg/L		104	75 - 125
Lead	<0.00021		0.500	0.482		mg/L		96	75 - 125
Lithium	<0.0020		0.500	0.456		mg/L		91	75 - 125
Molybdenum	<0.00086		0.100	0.101		mg/L		101	75 - 125
Selenium	<0.00099		0.100	0.0992		mg/L		99	75 - 125
Thallium	<0.00026		0.0500	0.0459		mg/L		92	75 - 125

Lab Sample ID: 680-239233-B-18-C MSD
Matrix: Water
Analysis Batch: 794146

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 793975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00034		0.0500	0.0500		mg/L		100	75 - 125	2	20

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QC Sample Results

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

Job ID: 680-239236-1

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

Lab Sample ID: 680-239233-B-18-C MSD

Matrix: Water

Analysis Batch: 794146

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 793975

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Arsenic	<0.00086		0.100	0.102		mg/L		102	75 - 125	2	20
Barium	0.014		0.100	0.110		mg/L		96	75 - 125	3	20
Beryllium	<0.00020		0.0500	0.0470		mg/L		94	75 - 125	1	20
Boron	<0.022		0.200	0.194		mg/L		97	75 - 125	1	20
Cadmium	<0.000078		0.0500	0.0498		mg/L		100	75 - 125	1	20
Calcium	3.5		5.00	8.20		mg/L		94	75 - 125	2	20
Chromium	<0.0012		0.100	0.0956		mg/L		96	75 - 125	1	20
Cobalt	<0.00022		0.0500	0.0529		mg/L		106	75 - 125	2	20
Lead	<0.00021		0.500	0.491		mg/L		98	75 - 125	2	20
Lithium	<0.0020		0.500	0.463		mg/L		93	75 - 125	2	20
Molybdenum	<0.00086		0.100	0.102		mg/L		102	75 - 125	1	20
Selenium	<0.00099		0.100	0.102		mg/L		102	75 - 125	3	20
Thallium	<0.00026		0.0500	0.0464		mg/L		93	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-794320/1-A

Matrix: Water

Analysis Batch: 794537

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 794320

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000080		0.00020	0.000080	mg/L		08/21/23 12:16	08/22/23 11:38	1

Lab Sample ID: LCS 680-794320/2-A

Matrix: Water

Analysis Batch: 794537

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 794320

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Mercury	0.00250	0.00253		mg/L		101	80 - 120

Lab Sample ID: 680-239233-B-19-C MS

Matrix: Water

Analysis Batch: 794537

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 794320

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				Limits
Mercury	<0.000080		0.00100	0.000998		mg/L		100	80 - 120

Lab Sample ID: 680-239233-B-19-D MSD

Matrix: Water

Analysis Batch: 794537

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 794320

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	<0.000080		0.00100	0.000966		mg/L		97	80 - 120	3	20

QC Sample Results

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

Job ID: 680-239236-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-794055/1
Matrix: Water
Analysis Batch: 794055

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			08/18/23 12:06	1

Lab Sample ID: LCS 680-794055/2
Matrix: Water
Analysis Batch: 794055

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	2380	2380		mg/L		100	80 - 120

Lab Sample ID: LCSD 680-794055/3
Matrix: Water
Analysis Batch: 794055

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2380	2380		mg/L		100	80 - 120	0	25

Lab Sample ID: 680-239031-C-2 DU
Matrix: Water
Analysis Batch: 794055

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	950		1050	F3	mg/L		10	5

Lab Sample ID: MB 680-794147/1
Matrix: Water
Analysis Batch: 794147

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			08/19/23 10:23	1

Lab Sample ID: LCS 680-794147/2
Matrix: Water
Analysis Batch: 794147

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	2380	2370		mg/L		100	80 - 120

Lab Sample ID: LCSD 680-794147/3
Matrix: Water
Analysis Batch: 794147

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2380	2370		mg/L		99	80 - 120	0	25

Lab Sample ID: 680-239236-9 DU
Matrix: Water
Analysis Batch: 794147

Client Sample ID: WAN-WGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	680		660		mg/L		3	5

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QC Association Summary

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

Job ID: 680-239236-1

HPLC/IC

Analysis Batch: 794490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239236-1	WAN-WGWA-1	Total/NA	Water	300.0-1993 R2.1	
680-239236-2	WAN-WGWA-2	Total/NA	Water	300.0-1993 R2.1	
680-239236-3	WAN-WGWA-3	Total/NA	Water	300.0-1993 R2.1	
680-239236-4	WAN-WGWA-4	Total/NA	Water	300.0-1993 R2.1	
MB 680-794490/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-794490/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-794490/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-239236-1 MS	WAN-WGWA-1	Total/NA	Water	300.0-1993 R2.1	
680-239236-1 MSD	WAN-WGWA-1	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 794491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239236-5	WAN-WGWA-5	Total/NA	Water	300.0-1993 R2.1	
680-239236-6	WAN-WGWA-6	Total/NA	Water	300.0-1993 R2.1	
680-239236-7	WAN-WGWA-7	Total/NA	Water	300.0-1993 R2.1	
680-239236-8	WAN-WGWA-18	Total/NA	Water	300.0-1993 R2.1	
680-239236-9	WAN-WGWC-8	Total/NA	Water	300.0-1993 R2.1	
680-239236-10	WAN-WGWC-16	Total/NA	Water	300.0-1993 R2.1	
680-239236-11	WAN-WGWC-25	Total/NA	Water	300.0-1993 R2.1	
680-239236-12	WAN-AP1-FD-02	Total/NA	Water	300.0-1993 R2.1	
680-239236-13	WAN-AP1-FB-07	Total/NA	Water	300.0-1993 R2.1	
MB 680-794491/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-794491/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-794491/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-239236-5 MS	WAN-WGWA-5	Total/NA	Water	300.0-1993 R2.1	
680-239236-5 MSD	WAN-WGWA-5	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 793975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239236-1	WAN-WGWA-1	Total Recoverable	Water	3005A	
680-239236-2	WAN-WGWA-2	Total Recoverable	Water	3005A	
680-239236-3	WAN-WGWA-3	Total Recoverable	Water	3005A	
680-239236-4	WAN-WGWA-4	Total Recoverable	Water	3005A	
680-239236-5	WAN-WGWA-5	Total Recoverable	Water	3005A	
680-239236-6	WAN-WGWA-6	Total Recoverable	Water	3005A	
680-239236-7	WAN-WGWA-7	Total Recoverable	Water	3005A	
680-239236-8	WAN-WGWA-18	Total Recoverable	Water	3005A	
680-239236-9	WAN-WGWC-8	Total Recoverable	Water	3005A	
680-239236-10	WAN-WGWC-16	Total Recoverable	Water	3005A	
680-239236-11	WAN-WGWC-25	Total Recoverable	Water	3005A	
680-239236-12	WAN-AP1-FD-02	Total Recoverable	Water	3005A	
680-239236-13	WAN-AP1-FB-07	Total Recoverable	Water	3005A	
MB 680-793975/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-793975/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-239233-B-18-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-239233-B-18-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

QC Association Summary

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

Job ID: 680-239236-1

Metals

Analysis Batch: 794146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239236-1	WAN-WGWA-1	Total Recoverable	Water	6020B	793975
680-239236-2	WAN-WGWA-2	Total Recoverable	Water	6020B	793975
680-239236-3	WAN-WGWA-3	Total Recoverable	Water	6020B	793975
680-239236-4	WAN-WGWA-4	Total Recoverable	Water	6020B	793975
680-239236-5	WAN-WGWA-5	Total Recoverable	Water	6020B	793975
680-239236-6	WAN-WGWA-6	Total Recoverable	Water	6020B	793975
680-239236-7	WAN-WGWA-7	Total Recoverable	Water	6020B	793975
680-239236-8	WAN-WGWA-18	Total Recoverable	Water	6020B	793975
680-239236-9	WAN-WGWC-8	Total Recoverable	Water	6020B	793975
680-239236-10	WAN-WGWC-16	Total Recoverable	Water	6020B	793975
680-239236-11	WAN-WGWC-25	Total Recoverable	Water	6020B	793975
680-239236-12	WAN-AP1-FD-02	Total Recoverable	Water	6020B	793975
680-239236-13	WAN-AP1-FB-07	Total Recoverable	Water	6020B	793975
MB 680-793975/1-A	Method Blank	Total Recoverable	Water	6020B	793975
LCS 680-793975/2-A	Lab Control Sample	Total Recoverable	Water	6020B	793975
680-239233-B-18-B MS	Matrix Spike	Total Recoverable	Water	6020B	793975
680-239233-B-18-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	793975

Prep Batch: 794320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239236-1	WAN-WGWA-1	Total/NA	Water	7470A	
680-239236-2	WAN-WGWA-2	Total/NA	Water	7470A	
680-239236-3	WAN-WGWA-3	Total/NA	Water	7470A	
680-239236-4	WAN-WGWA-4	Total/NA	Water	7470A	
680-239236-5	WAN-WGWA-5	Total/NA	Water	7470A	
680-239236-6	WAN-WGWA-6	Total/NA	Water	7470A	
680-239236-7	WAN-WGWA-7	Total/NA	Water	7470A	
680-239236-8	WAN-WGWA-18	Total/NA	Water	7470A	
680-239236-9	WAN-WGWC-8	Total/NA	Water	7470A	
680-239236-10	WAN-WGWC-16	Total/NA	Water	7470A	
680-239236-11	WAN-WGWC-25	Total/NA	Water	7470A	
680-239236-12	WAN-AP1-FD-02	Total/NA	Water	7470A	
680-239236-13	WAN-AP1-FB-07	Total/NA	Water	7470A	
MB 680-794320/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-794320/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-239233-B-19-C MS	Matrix Spike	Total/NA	Water	7470A	
680-239233-B-19-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 794537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239236-1	WAN-WGWA-1	Total/NA	Water	7470A	794320
680-239236-2	WAN-WGWA-2	Total/NA	Water	7470A	794320
680-239236-3	WAN-WGWA-3	Total/NA	Water	7470A	794320
680-239236-4	WAN-WGWA-4	Total/NA	Water	7470A	794320
680-239236-5	WAN-WGWA-5	Total/NA	Water	7470A	794320
680-239236-6	WAN-WGWA-6	Total/NA	Water	7470A	794320
680-239236-7	WAN-WGWA-7	Total/NA	Water	7470A	794320
680-239236-8	WAN-WGWA-18	Total/NA	Water	7470A	794320
680-239236-9	WAN-WGWC-8	Total/NA	Water	7470A	794320
680-239236-10	WAN-WGWC-16	Total/NA	Water	7470A	794320
680-239236-11	WAN-WGWC-25	Total/NA	Water	7470A	794320

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QC Association Summary

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

Job ID: 680-239236-1

Metals (Continued)

Analysis Batch: 794537 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239236-12	WAN-AP1-FD-02	Total/NA	Water	7470A	794320
680-239236-13	WAN-AP1-FB-07	Total/NA	Water	7470A	794320
MB 680-794320/1-A	Method Blank	Total/NA	Water	7470A	794320
LCS 680-794320/2-A	Lab Control Sample	Total/NA	Water	7470A	794320
680-239233-B-19-C MS	Matrix Spike	Total/NA	Water	7470A	794320
680-239233-B-19-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	794320

General Chemistry

Analysis Batch: 794055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239236-1	WAN-WGWA-1	Total/NA	Water	2540C-2011	
680-239236-2	WAN-WGWA-2	Total/NA	Water	2540C-2011	
MB 680-794055/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-794055/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-794055/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-239031-C-2 DU	Duplicate	Total/NA	Water	2540C-2011	

Analysis Batch: 794147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239236-3	WAN-WGWA-3	Total/NA	Water	2540C-2011	
680-239236-4	WAN-WGWA-4	Total/NA	Water	2540C-2011	
680-239236-5	WAN-WGWA-5	Total/NA	Water	2540C-2011	
680-239236-6	WAN-WGWA-6	Total/NA	Water	2540C-2011	
680-239236-7	WAN-WGWA-7	Total/NA	Water	2540C-2011	
680-239236-8	WAN-WGWA-18	Total/NA	Water	2540C-2011	
680-239236-9	WAN-WGWC-8	Total/NA	Water	2540C-2011	
680-239236-10	WAN-WGWC-16	Total/NA	Water	2540C-2011	
680-239236-11	WAN-WGWC-25	Total/NA	Water	2540C-2011	
680-239236-12	WAN-AP1-FD-02	Total/NA	Water	2540C-2011	
680-239236-13	WAN-AP1-FB-07	Total/NA	Water	2540C-2011	
MB 680-794147/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-794147/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-794147/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-239236-9 DU	WAN-WGWC-8	Total/NA	Water	2540C-2011	

Lab Chronicle

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

Job ID: 680-239236-1

Client Sample ID: WAN-WGWA-1

Lab Sample ID: 680-239236-1

Date Collected: 08/14/23 16:01

Matrix: Water

Date Received: 08/17/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794490	08/22/23 14:08	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793975	08/18/23 07:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794146	08/18/23 19:15	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794320	08/21/23 12:16	DW	EET SAV
Total/NA	Analysis	7470A		1			794537	08/22/23 12:07	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794055	08/18/23 12:06	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-239236-2

Date Collected: 08/14/23 14:23

Matrix: Water

Date Received: 08/17/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794490	08/22/23 14:46	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793975	08/18/23 07:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794146	08/18/23 19:19	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794320	08/21/23 12:16	DW	EET SAV
Total/NA	Analysis	7470A		1			794537	08/22/23 12:09	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794055	08/18/23 12:06	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-3

Lab Sample ID: 680-239236-3

Date Collected: 08/15/23 10:28

Matrix: Water

Date Received: 08/17/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794490	08/22/23 14:58	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793975	08/18/23 07:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794146	08/18/23 19:23	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794320	08/21/23 12:16	DW	EET SAV
Total/NA	Analysis	7470A		1			794537	08/22/23 12:10	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794147	08/19/23 10:23	PG	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 680-239236-1

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-239236-4

Date Collected: 08/15/23 11:51

Matrix: Water

Date Received: 08/17/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794490	08/22/23 15:11	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793975	08/18/23 07:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794146	08/18/23 19:27	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794320	08/21/23 12:16	DW	EET SAV
Total/NA	Analysis	7470A		1			794537	08/22/23 12:12	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794147	08/19/23 10:23	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-5

Lab Sample ID: 680-239236-5

Date Collected: 08/15/23 15:16

Matrix: Water

Date Received: 08/17/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794491	08/22/23 20:28	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793975	08/18/23 07:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794146	08/18/23 19:31	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794320	08/21/23 12:16	DW	EET SAV
Total/NA	Analysis	7470A		1			794537	08/22/23 12:13	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794147	08/19/23 10:23	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-6

Lab Sample ID: 680-239236-6

Date Collected: 08/15/23 11:10

Matrix: Water

Date Received: 08/17/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794491	08/22/23 21:06	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793975	08/18/23 07:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794146	08/18/23 19:36	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794320	08/21/23 12:16	DW	EET SAV
Total/NA	Analysis	7470A		1			794537	08/22/23 12:15	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794147	08/19/23 10:23	PG	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 680-239236-1

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-239236-7

Date Collected: 08/15/23 13:50

Matrix: Water

Date Received: 08/17/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794491	08/22/23 21:18	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793975	08/18/23 07:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794146	08/18/23 19:40	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794320	08/21/23 12:16	DW	EET SAV
Total/NA	Analysis	7470A		1			794537	08/22/23 12:16	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794147	08/19/23 10:23	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-18

Lab Sample ID: 680-239236-8

Date Collected: 08/15/23 14:15

Matrix: Water

Date Received: 08/17/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794491	08/22/23 21:31	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793975	08/18/23 07:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794146	08/18/23 19:44	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794320	08/21/23 12:16	DW	EET SAV
Total/NA	Analysis	7470A		1			794537	08/22/23 12:18	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794147	08/19/23 10:23	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-239236-9

Date Collected: 08/15/23 17:07

Matrix: Water

Date Received: 08/17/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		2	5 mL	5 mL	794491	08/22/23 21:44	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793975	08/18/23 07:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794146	08/18/23 19:48	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794320	08/21/23 12:16	DW	EET SAV
Total/NA	Analysis	7470A		1			794537	08/22/23 12:20	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	794147	08/19/23 10:23	PG	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 680-239236-1

Client Sample ID: WAN-WGWC-16

Lab Sample ID: 680-239236-10

Date Collected: 08/15/23 15:56

Matrix: Water

Date Received: 08/17/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794491	08/22/23 21:56	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793975	08/18/23 07:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794146	08/18/23 19:52	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794320	08/21/23 12:16	DW	EET SAV
Total/NA	Analysis	7470A		1			794537	08/22/23 12:21	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	794147	08/19/23 10:23	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-25

Lab Sample ID: 680-239236-11

Date Collected: 08/15/23 17:50

Matrix: Water

Date Received: 08/17/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794491	08/22/23 22:09	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793975	08/18/23 07:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794146	08/18/23 20:04	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794320	08/21/23 12:16	DW	EET SAV
Total/NA	Analysis	7470A		1			794537	08/22/23 12:26	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	794147	08/19/23 10:23	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-239236-12

Date Collected: 08/15/23 00:00

Matrix: Water

Date Received: 08/17/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794491	08/22/23 22:22	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793975	08/18/23 07:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794146	08/18/23 20:08	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794320	08/21/23 12:16	DW	EET SAV
Total/NA	Analysis	7470A		1			794537	08/22/23 12:27	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	794147	08/19/23 10:23	PG	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 680-239236-1

Client Sample ID: WAN-AP1-FB-07

Lab Sample ID: 680-239236-13

Date Collected: 08/15/23 17:30

Matrix: Water

Date Received: 08/17/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794491	08/22/23 22:34	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	793975	08/18/23 07:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794146	08/18/23 20:12	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794320	08/21/23 12:16	DW	EET SAV
Total/NA	Analysis	7470A		1			794537	08/22/23 12:29	BJB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794147	08/19/23 10:23	PG	EET SAV
Instrument ID: NOEQUIP										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Accreditation/Certification Summary

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

Job ID: 680-239236-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

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

Method Summary

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

Job ID: 680-239236-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client Information
 Client Contact: T. Goble ACC
 SCS Contacts: H. Ajid
 Phone: 770-594-5998
 E-Mail: david.fuller@et.eurofins.com

Company: GA Power
 Address: 241 Ralph McGill Blvd SE
 City: Atlanta
 State, zip: GA, 30308
 Phone: 404-506-7116(Tel)
 Email: 68027766
 SCS Contacts / Geosyntec Contacts
 Project Name: Plant Wansley Ash Pond
 Site: SSO#W#

Sampler: T. Goble ACC
 Lab PM: Fuller, David
 Date: 08/14/23
 Time: 15:20
 Method of Shipment:
 Date/Time: 08/16/23 01:52:00
 Company: ACC

Due Date Requested:
 TAT Requested (days):
 Analysis Requested

Carrier Tracking No(s):
 Job #: 1052

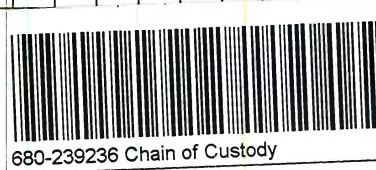
COC No: 1052
 Page: 1 of 2

Task Code: WAN-CCR-ASSMT-2023S2
 Special Instructions/Note: Full APP III and APP IV

Preservation Codes:
 A - HCl M - Hexane
 B - NaOH N - None
 C - Zn Acetate O - AsNaO2
 D - Nitric Acid P - Na2O4S
 E - NaHSO4 Q - Na2SO3
 F - MeOH R - Na2S2O3
 G - Amchlor S - H2SO4
 H - Ascorbic Acid T - TSP Dodecylhydrate
 I - Ice U - Acetone
 J - DI Water V - MCAA
 K - EDTA W - pH 4.5
 L - EDTA Z - other (specify)
 Other:

Sample Identification
 Sample Type (mm/dd/yy) Sample Time (hhmm) Sample Type (C-comp, G=grab) Matrix (Organic, water, W=quantity control)
 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)
 App IV Metals (EPA 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,TL
 Radium 226 & 228 (SW-846 9315/9320)

Sample ID	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C-comp, G=grab)	Matrix (Organic, water, W=quantity control)	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)	App IV Metals (EPA 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,TL	Radium 226 & 228 (SW-846 9315/9320)	Total Number of containers
WAN- WGWMA-1	08/14/23	1601	G	WG	N	N	✓	✓	✓	✓	5
WAN- WGWMA-2	08/14/23	1423	G	WG	N	N	✓	✓	✓	✓	5
WAN- WGWMA-3	08/15/23	1028	G	WG	N	N	✓	✓	✓	✓	5
WAN- WGWMA-4	08/15/23	1151	G	WG	N	N	✓	✓	✓	✓	5
WAN- WGWMA-5	08/15/23	1516	G	WG	N	N	✓	✓	✓	✓	5
WAN- WGWMA-6	08/15/23	1110	G	WG	N	N	✓	✓	✓	✓	5
WAN- WGWMA-7	08/15/23	1350	G	WG	N	N	✓	✓	✓	✓	5
WAN- WGWMA-18	08/15/23	1415	G	WG	N	N	✓	✓	✓	✓	5
WAN- WGWMA-8	08/15/23	1707	G	WG	N	N	✓	✓	✓	✓	5
WAN- WGWMA-16	08/15/23	1556	G	WG	N	N	✓	✓	✓	✓	5
WAN- WGWMA-25	08/15/23	1750	G	WG	N	N	✓	✓	✓	✓	5



Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by:
 Date:
 Time:
 Method of Shipment:
 Date/Time: 08/16/23 15:20
 Company: ACC

Relinquished by:
 Date/Time: 08/16/23 15:20
 Company: ACC

Relinquished by:
 Date/Time: 08/16/23 15:20
 Company: ACC

Relinquished by:
 Date/Time: 08/16/23 15:20
 Company: ACC

Custody Seals Intact:
 Custody Seal No.:
 Cooler Temperature(s) and Other Remarks: 08/29 19/20 36/37 3.2/5.3
 Date/Time: 08/29 0900
 Company: ACC

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-239236-1

Login Number: 239236

List Number: 1

Creator: Johnson, Corey M

List Source: Eurofins Savannah

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/30/2023 9:46:14 PM

JOB DESCRIPTION

Plant Wansley Ash Pond

JOB NUMBER

680-239236-2

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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9/30/2023 9:46:14 PM

Definitions/Glossary

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

Job ID: 680-239236-2

Qualifiers

Rad

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

Glossary

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

Sample Summary

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

Job ID: 680-239236-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-239236-1	WAN-WGWA-1	Water	08/14/23 16:01	08/17/23 09:00
680-239236-2	WAN-WGWA-2	Water	08/14/23 14:23	08/17/23 09:00
680-239236-3	WAN-WGWA-3	Water	08/15/23 10:28	08/17/23 09:00
680-239236-4	WAN-WGWA-4	Water	08/15/23 11:51	08/17/23 09:00
680-239236-5	WAN-WGWA-5	Water	08/15/23 15:16	08/17/23 09:00
680-239236-6	WAN-WGWA-6	Water	08/15/23 11:10	08/17/23 09:00
680-239236-7	WAN-WGWA-7	Water	08/15/23 13:50	08/17/23 09:00
680-239236-8	WAN-WGWA-18	Water	08/15/23 14:15	08/17/23 09:00
680-239236-9	WAN-WGWC-8	Water	08/15/23 17:07	08/17/23 09:00
680-239236-10	WAN-WGWC-16	Water	08/15/23 15:56	08/17/23 09:00
680-239236-11	WAN-WGWC-25	Water	08/15/23 17:50	08/17/23 09:00
680-239236-12	WAN-AP1-FD-02	Water	08/15/23 00:00	08/17/23 09:00
680-239236-13	WAN-AP1-FB-07	Water	08/15/23 17:30	08/17/23 09:00

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Case Narrative

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

Job ID: 680-239236-2

Job ID: 680-239236-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-239236-2

Receipt

The samples were received on 8/17/2023 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 5 coolers at receipt time were 2.0°C, 2.4°C, 2.9°C, 3.3°C and 3.7°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 Prep Batch 160-625148 Insufficient sample volume was available to perform a sample duplicate for the following samples: WAN-WGWA-3 (680-239236-3), WAN-WGWA-4 (680-239236-4), WAN-WGWA-5 (680-239236-5), WAN-WGWA-6 (680-239236-6), WAN-WGWA-7 (680-239236-7), WAN-WGWA-18 (680-239236-8), WAN-WGWC-8 (680-239236-9), WAN-WGWC-16 (680-239236-10), WAN-WGWC-25 (680-239236-11), WAN-AP1-FD-02 (680-239236-12) and WAN-AP1-FB-07 (680-239236-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315_Ra226: Radium-226 batch 625145 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. WAN-WGWA-1 (680-239236-1), WAN-WGWA-2 (680-239236-2), (LCS 160-625145/2-A), (MB 160-625145/1-A), (180-161008-A-3-A) and (180-161008-A-3-B DU)

Method 9315_Ra226: Radium-226 batch 625148 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. WAN-WGWA-3 (680-239236-3), WAN-WGWA-4 (680-239236-4), WAN-WGWA-5 (680-239236-5), WAN-WGWA-6 (680-239236-6), WAN-WGWA-7 (680-239236-7), WAN-WGWA-18 (680-239236-8), WAN-WGWC-8 (680-239236-9), WAN-WGWC-16 (680-239236-10), WAN-WGWC-25 (680-239236-11), WAN-AP1-FD-02 (680-239236-12), WAN-AP1-FB-07 (680-239236-13), (LCS 160-625148/2-A), (LCSD 160-625148/3-A) and (MB 160-625148/1-A)

Method 9320_Ra228: Radium-228 Prep Batch 160-625149 Insufficient sample volume was available to perform a sample duplicate for the following samples: WAN-WGWA-3 (680-239236-3), WAN-WGWA-4 (680-239236-4), WAN-WGWA-5 (680-239236-5), WAN-WGWA-6 (680-239236-6), WAN-WGWA-7 (680-239236-7), WAN-WGWA-18 (680-239236-8), WAN-WGWC-8 (680-239236-9), WAN-WGWC-16 (680-239236-10), WAN-WGWC-25 (680-239236-11), WAN-AP1-FD-02 (680-239236-12) and WAN-AP1-FB-07 (680-239236-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 prep batch 160-625147: The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative. (180-161008-A-3-C) and (180-161008-A-3-D DU)

Method 9320_Ra228: Radium-228 prep batch 160-625147: 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. WAN-WGWA-1 (680-239236-1), WAN-WGWA-2 (680-239236-2), (LCS 160-625147/2-A), (MB 160-625147/1-A), (180-161008-A-3-C) and (180-161008-A-3-D DU)

Method 9320_Ra228: Radium-228 batch 625149 The detection goal was not met for the following sample(s). The samples and batch QC were prepped at full volume. Matrix interferences are suspected because the method blank achieved the detection goal demonstrating acceptable sample preparation and instrument performance: WAN-WGWA-4 (680-239236-4). Analytical results are reported with the detection limit achieved.

Method 9320_Ra228: Radium-228 batch 625149 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. WAN-WGWA-3 (680-239236-3), WAN-WGWA-4 (680-239236-4), WAN-WGWA-5 (680-239236-5), WAN-WGWA-6 (680-239236-6), WAN-WGWA-7 (680-239236-7), WAN-WGWA-18 (680-239236-8), WAN-WGWC-8 (680-239236-9), WAN-WGWC-16 (680-239236-10), WAN-WGWC-25 (680-239236-11), WAN-AP1-FD-02 (680-239236-12), WAN-AP1-FB-07 (680-239236-13), (LCS 160-625149/2-A), (LCSD 160-625149/3-A) and (MB 160-625149/1-A)

Case Narrative

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

Job ID: 680-239236-2

Job ID: 680-239236-2 (Continued)

Laboratory: Eurofins Savannah (Continued)

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

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

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Client Sample Results

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

Job ID: 680-239236-2

Client Sample ID: WAN-WGWA-1

Lab Sample ID: 680-239236-1

Date Collected: 08/14/23 16:01

Matrix: Water

Date Received: 08/17/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00596	U	0.0900	0.0900	1.00	0.181	pCi/L	08/23/23 09:49	09/15/23 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					08/23/23 09:49	09/15/23 07:42	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.04		0.525	0.534	1.00	0.744	pCi/L	08/23/23 09:58	09/12/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					08/23/23 09:58	09/12/23 12:05	1
Y Carrier	76.3		30 - 110					08/23/23 09:58	09/12/23 12:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.04		0.533	0.542	2.00	0.744	pCi/L		09/20/23 17:26	1

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-239236-2

Date Collected: 08/14/23 14:23

Matrix: Water

Date Received: 08/17/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0593	U	0.113	0.113	1.00	0.200	pCi/L	08/23/23 09:49	09/15/23 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		30 - 110					08/23/23 09:49	09/15/23 07:42	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.525	U	0.468	0.470	1.00	0.741	pCi/L	08/23/23 09:58	09/12/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		30 - 110					08/23/23 09:58	09/12/23 12:05	1
Y Carrier	76.6		30 - 110					08/23/23 09:58	09/12/23 12:05	1

Client Sample Results

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

Job ID: 680-239236-2

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-239236-2

Date Collected: 08/14/23 14:23

Matrix: Water

Date Received: 08/17/23 09:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.585	U	0.481	0.483	2.00	0.741	pCi/L		09/20/23 17:26	1

Client Sample ID: WAN-WGWA-3

Lab Sample ID: 680-239236-3

Date Collected: 08/15/23 10:28

Matrix: Water

Date Received: 08/17/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0218	U	0.114	0.114	1.00	0.221	pCi/L	08/23/23 10:00	09/21/23 21:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		30 - 110					08/23/23 10:00	09/21/23 21:15	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.547	U	0.440	0.443	1.00	0.683	pCi/L	08/23/23 10:02	09/20/23 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		30 - 110					08/23/23 10:02	09/20/23 12:17	1
Y Carrier	65.4		30 - 110					08/23/23 10:02	09/20/23 12:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.569	U	0.455	0.457	2.00	0.683	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-239236-4

Date Collected: 08/15/23 11:51

Matrix: Water

Date Received: 08/17/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.493		0.193	0.198	1.00	0.187	pCi/L	08/23/23 10:00	09/21/23 21:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		30 - 110					08/23/23 10:00	09/21/23 21:16	1

Client Sample Results

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

Job ID: 680-239236-2

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-239236-4

Date Collected: 08/15/23 11:51

Matrix: Water

Date Received: 08/17/23 09:00

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.909	U G	0.666	0.671	1.00	1.02	pCi/L	08/23/23 10:02	09/20/23 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		30 - 110					08/23/23 10:02	09/20/23 12:17	1
Y Carrier	51.6		30 - 110					08/23/23 10:02	09/20/23 12:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.40		0.693	0.700	2.00	1.02	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-WGWA-5

Lab Sample ID: 680-239236-5

Date Collected: 08/15/23 15:16

Matrix: Water

Date Received: 08/17/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.141	U	0.127	0.127	1.00	0.187	pCi/L	08/23/23 10:00	09/21/23 21:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					08/23/23 10:00	09/21/23 21:16	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.250	U	0.506	0.507	1.00	0.876	pCi/L	08/23/23 10:02	09/20/23 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					08/23/23 10:02	09/20/23 12:17	1
Y Carrier	59.4		30 - 110					08/23/23 10:02	09/20/23 12:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.391	U	0.522	0.523	2.00	0.876	pCi/L		09/28/23 12:15	1

Client Sample Results

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

Job ID: 680-239236-2

Client Sample ID: WAN-WGWA-6

Lab Sample ID: 680-239236-6

Date Collected: 08/15/23 11:10

Matrix: Water

Date Received: 08/17/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.98		0.427	0.505	1.00	0.193	pCi/L	08/23/23 10:00	09/21/23 21:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		30 - 110					08/23/23 10:00	09/21/23 21:16	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	8.45		1.11	1.35	1.00	0.798	pCi/L	08/23/23 10:02	09/20/23 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		30 - 110					08/23/23 10:02	09/20/23 12:17	1
Y Carrier	60.9		30 - 110					08/23/23 10:02	09/20/23 12:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	11.4		1.19	1.44	2.00	0.798	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-239236-7

Date Collected: 08/15/23 13:50

Matrix: Water

Date Received: 08/17/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.000	U	0.119	0.119	1.00	0.250	pCi/L	08/23/23 10:00	09/21/23 21:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.4		30 - 110					08/23/23 10:00	09/21/23 21:16	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.139	U	0.496	0.497	1.00	0.968	pCi/L	08/23/23 10:02	09/20/23 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.4		30 - 110					08/23/23 10:02	09/20/23 12:17	1
Y Carrier	60.6		30 - 110					08/23/23 10:02	09/20/23 12:17	1

Client Sample Results

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

Job ID: 680-239236-2

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-239236-7

Date Collected: 08/15/23 13:50

Matrix: Water

Date Received: 08/17/23 09:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.139	U	0.510	0.511	2.00	0.968	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-WGWA-18

Lab Sample ID: 680-239236-8

Date Collected: 08/15/23 14:15

Matrix: Water

Date Received: 08/17/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.111	U	0.0952	0.0958	1.00	0.145	pCi/L	08/23/23 10:00	09/25/23 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		30 - 110					08/23/23 10:00	09/25/23 20:21	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.315	U	0.354	0.355	1.00	0.580	pCi/L	08/23/23 10:02	09/20/23 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		30 - 110					08/23/23 10:02	09/20/23 12:18	1
Y Carrier	79.3		30 - 110					08/23/23 10:02	09/20/23 12:18	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.426	U	0.367	0.368	2.00	0.580	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-239236-9

Date Collected: 08/15/23 17:07

Matrix: Water

Date Received: 08/17/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.417		0.141	0.146	1.00	0.146	pCi/L	08/23/23 10:00	09/25/23 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					08/23/23 10:00	09/25/23 20:21	1

Client Sample Results

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

Job ID: 680-239236-2

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-239236-9

Date Collected: 08/15/23 17:07

Matrix: Water

Date Received: 08/17/23 09:00

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.24		0.581	0.616	1.00	0.649	pCi/L	08/23/23 10:02	09/20/23 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					08/23/23 10:02	09/20/23 12:18	1
Y Carrier	79.3		30 - 110					08/23/23 10:02	09/20/23 12:18	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.65		0.598	0.633	2.00	0.649	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-WGWC-16

Lab Sample ID: 680-239236-10

Date Collected: 08/15/23 15:56

Matrix: Water

Date Received: 08/17/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.137		0.0905	0.0913	1.00	0.123	pCi/L	08/23/23 10:00	09/25/23 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					08/23/23 10:00	09/25/23 20:21	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.595		0.378	0.381	1.00	0.553	pCi/L	08/23/23 10:02	09/20/23 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					08/23/23 10:02	09/20/23 12:19	1
Y Carrier	80.4		30 - 110					08/23/23 10:02	09/20/23 12:19	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.732		0.389	0.392	2.00	0.553	pCi/L		09/28/23 12:15	1

Client Sample Results

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

Job ID: 680-239236-2

Client Sample ID: WAN-WGWC-25

Lab Sample ID: 680-239236-11

Date Collected: 08/15/23 17:50

Matrix: Water

Date Received: 08/17/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.228		0.110	0.112	1.00	0.128	pCi/L	08/23/23 10:00	09/25/23 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		30 - 110					08/23/23 10:00	09/25/23 20:21	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.354	U	0.391	0.392	1.00	0.639	pCi/L	08/23/23 10:02	09/20/23 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		30 - 110					08/23/23 10:02	09/20/23 12:19	1
Y Carrier	79.6		30 - 110					08/23/23 10:02	09/20/23 12:19	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.581	U	0.406	0.408	2.00	0.639	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-239236-12

Date Collected: 08/15/23 00:00

Matrix: Water

Date Received: 08/17/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.180		0.104	0.105	1.00	0.135	pCi/L	08/23/23 10:00	09/25/23 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					08/23/23 10:00	09/25/23 20:21	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0149	U	0.341	0.341	1.00	0.631	pCi/L	08/23/23 10:02	09/20/23 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					08/23/23 10:02	09/20/23 12:19	1
Y Carrier	79.3		30 - 110					08/23/23 10:02	09/20/23 12:19	1

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Client Sample Results

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

Job ID: 680-239236-2

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-239236-12

Date Collected: 08/15/23 00:00

Matrix: Water

Date Received: 08/17/23 09:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.195	U	0.357	0.357	2.00	0.631	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-AP1-FB-07

Lab Sample ID: 680-239236-13

Date Collected: 08/15/23 17:30

Matrix: Water

Date Received: 08/17/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00836	U	0.0788	0.0788	1.00	0.157	pCi/L	08/23/23 10:00	09/25/23 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.4		30 - 110					08/23/23 10:00	09/25/23 20:21	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.413	U	0.464	0.466	1.00	0.760	pCi/L	08/23/23 10:02	09/20/23 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.4		30 - 110					08/23/23 10:02	09/20/23 12:19	1
Y Carrier	77.8		30 - 110					08/23/23 10:02	09/20/23 12:19	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.421	U	0.471	0.473	2.00	0.760	pCi/L		09/28/23 12:15	1

Tracer/Carrier Summary

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

Job ID: 680-239236-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
180-161008-A-3-B DU	Duplicate	85.0	
680-239236-1	WAN-WGWA-1	86.7	
680-239236-2	WAN-WGWA-2	85.2	
680-239236-3	WAN-WGWA-3	94.7	
680-239236-4	WAN-WGWA-4	87.5	
680-239236-5	WAN-WGWA-5	88.5	
680-239236-6	WAN-WGWA-6	92.2	
680-239236-7	WAN-WGWA-7	73.4	
680-239236-8	WAN-WGWA-18	91.2	
680-239236-9	WAN-WGWC-8	92.5	
680-239236-10	WAN-WGWC-16	89.7	
680-239236-11	WAN-WGWC-25	86.0	
680-239236-12	WAN-AP1-FD-02	86.7	
680-239236-13	WAN-AP1-FB-07	73.4	
LCS 160-625145/2-A	Lab Control Sample	95.0	
LCS 160-625148/2-A	Lab Control Sample	94.0	
LCSD 160-625148/3-A	Lab Control Sample Dup	90.2	
MB 160-625145/1-A	Method Blank	99.0	
MB 160-625148/1-A	Method Blank	84.0	

Tracer/Carrier Legend
 Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
180-161008-A-3-D DU	Duplicate	85.0	77.4
680-239236-1	WAN-WGWA-1	86.7	76.3
680-239236-2	WAN-WGWA-2	85.2	76.6
680-239236-3	WAN-WGWA-3	94.7	65.4
680-239236-4	WAN-WGWA-4	87.5	51.6
680-239236-5	WAN-WGWA-5	88.5	59.4
680-239236-6	WAN-WGWA-6	92.2	60.9
680-239236-7	WAN-WGWA-7	73.4	60.6
680-239236-8	WAN-WGWA-18	91.2	79.3
680-239236-9	WAN-WGWC-8	92.5	79.3
680-239236-10	WAN-WGWC-16	89.7	80.4
680-239236-11	WAN-WGWC-25	86.0	79.6
680-239236-12	WAN-AP1-FD-02	86.7	79.3
680-239236-13	WAN-AP1-FB-07	73.4	77.8
LCS 160-625147/2-A	Lab Control Sample	95.0	80.7
LCS 160-625149/2-A	Lab Control Sample	94.0	58.7
LCSD 160-625149/3-A	Lab Control Sample Dup	90.2	67.3
MB 160-625147/1-A	Method Blank	99.0	67.3
MB 160-625149/1-A	Method Blank	84.0	76.3

Tracer/Carrier Legend
 Ba = Ba Carrier

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond
Y = Y Carrier

Job ID: 680-239236-2

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QC Sample Results

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

Job ID: 680-239236-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-625145/1-A
Matrix: Water
Analysis Batch: 628151

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625145

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01531	U	0.0985	0.0985	1.00	0.191	pCi/L	08/23/23 09:49	09/14/23 21:29	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	99.0		30 - 110		08/23/23 09:49	09/14/23 21:29	1			

Lab Sample ID: LCS 160-625145/2-A
Matrix: Water
Analysis Batch: 628698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625145

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.747		1.04	1.00	0.105	pCi/L	86	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	95.0		30 - 110						

Lab Sample ID: 180-161008-A-3-B DU
Matrix: Water
Analysis Batch: 628153

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 625145

Analyte	Sample		DU		Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	DU Qual	Uncert. (2σ+/-)					
Radium-226	0.171	U	0.08120	U	0.141	1.00	0.247	pCi/L	0.28	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	85.0		30 - 110							

Lab Sample ID: MB 160-625148/1-A
Matrix: Water
Analysis Batch: 629181

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625148

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03222	U	0.122	0.122	1.00	0.232	pCi/L	08/23/23 10:00	09/21/23 21:15	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	84.0		30 - 110		08/23/23 10:00	09/21/23 21:15	1			

Lab Sample ID: LCS 160-625148/2-A
Matrix: Water
Analysis Batch: 629181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625148

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.10		1.28	1.00	0.210	pCi/L	98	75 - 125

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QC Sample Results

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

Job ID: 680-239236-2

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

Lab Sample ID: LCS 160-625148/2-A
Matrix: Water
Analysis Batch: 629181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625148

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	94.0		30 - 110

Lab Sample ID: LCSD 160-625148/3-A
Matrix: Water
Analysis Batch: 629181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 625148

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	11.3	10.33		1.23	1.00	0.229	pCi/L	91	75 - 125	0.31	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	90.2		30 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-625147/1-A
Matrix: Water
Analysis Batch: 627783

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625147

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.04880	U	0.368	0.368	1.00	0.674	pCi/L	08/23/23 09:58	09/12/23 11:56	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		30 - 110	08/23/23 09:58	09/12/23 11:56	1
Y Carrier	67.3		30 - 110	08/23/23 09:58	09/12/23 11:56	1

Lab Sample ID: LCS 160-625147/2-A
Matrix: Water
Analysis Batch: 627783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625147

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	7.88	9.163		1.29	1.00	0.550	pCi/L	116	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.0		30 - 110
Y Carrier	80.7		30 - 110

Lab Sample ID: 180-161008-A-3-D DU
Matrix: Water
Analysis Batch: 627783

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 625147

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.459	U G	-0.1101	U G	0.535	1.00	1.01	pCi/L	0.48	1

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QC Sample Results

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

Job ID: 680-239236-2

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

Lab Sample ID: 180-161008-A-3-D DU
Matrix: Water
Analysis Batch: 627783

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 625147

Carrier	DU	DU	Limits
	%Yield	Qualifier	
Ba Carrier	85.0		30 - 110
Y Carrier	77.4		30 - 110

Lab Sample ID: MB 160-625149/1-A
Matrix: Water
Analysis Batch: 628850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625149

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.04817	U	0.293	0.293	1.00	0.576	pCi/L	08/23/23 10:02	09/20/23 12:09	1

Carrier	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	84.0		30 - 110	08/23/23 10:02	09/20/23 12:09	1
Y Carrier	76.3		30 - 110	08/23/23 10:02	09/20/23 12:09	1

Lab Sample ID: LCS 160-625149/2-A
Matrix: Water
Analysis Batch: 628850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625149

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	7.86	9.756		1.46	1.00	0.669	pCi/L	124	75 - 125

Carrier	LCS	LCS	Limits
	%Yield	Qualifier	
Ba Carrier	94.0		30 - 110
Y Carrier	58.7		30 - 110

Lab Sample ID: LCSD 160-625149/3-A
Matrix: Water
Analysis Batch: 628850

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 625149

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER
				Uncert. (2σ+/-)							Limit
Radium-228	7.86	9.355		1.39	1.00	0.663	pCi/L	119	75 - 125	0.14	1

Carrier	LCSD	LCSD	Limits
	%Yield	Qualifier	
Ba Carrier	90.2		30 - 110
Y Carrier	67.3		30 - 110

QC Association Summary

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

Job ID: 680-239236-2

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Prep Batch: 625145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239236-1	WAN-WGWA-1	Total/NA	Water	PrecSep-21	
680-239236-2	WAN-WGWA-2	Total/NA	Water	PrecSep-21	
MB 160-625145/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-625145/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-161008-A-3-B DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 625147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239236-1	WAN-WGWA-1	Total/NA	Water	PrecSep_0	
680-239236-2	WAN-WGWA-2	Total/NA	Water	PrecSep_0	
MB 160-625147/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-625147/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-161008-A-3-D DU	Duplicate	Total/NA	Water	PrecSep_0	

Prep Batch: 625148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239236-3	WAN-WGWA-3	Total/NA	Water	PrecSep-21	
680-239236-4	WAN-WGWA-4	Total/NA	Water	PrecSep-21	
680-239236-5	WAN-WGWA-5	Total/NA	Water	PrecSep-21	
680-239236-6	WAN-WGWA-6	Total/NA	Water	PrecSep-21	
680-239236-7	WAN-WGWA-7	Total/NA	Water	PrecSep-21	
680-239236-8	WAN-WGWA-18	Total/NA	Water	PrecSep-21	
680-239236-9	WAN-WGWC-8	Total/NA	Water	PrecSep-21	
680-239236-10	WAN-WGWC-16	Total/NA	Water	PrecSep-21	
680-239236-11	WAN-WGWC-25	Total/NA	Water	PrecSep-21	
680-239236-12	WAN-AP1-FD-02	Total/NA	Water	PrecSep-21	
680-239236-13	WAN-AP1-FB-07	Total/NA	Water	PrecSep-21	
MB 160-625148/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-625148/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-625148/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 625149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239236-3	WAN-WGWA-3	Total/NA	Water	PrecSep_0	
680-239236-4	WAN-WGWA-4	Total/NA	Water	PrecSep_0	
680-239236-5	WAN-WGWA-5	Total/NA	Water	PrecSep_0	
680-239236-6	WAN-WGWA-6	Total/NA	Water	PrecSep_0	
680-239236-7	WAN-WGWA-7	Total/NA	Water	PrecSep_0	
680-239236-8	WAN-WGWA-18	Total/NA	Water	PrecSep_0	
680-239236-9	WAN-WGWC-8	Total/NA	Water	PrecSep_0	
680-239236-10	WAN-WGWC-16	Total/NA	Water	PrecSep_0	
680-239236-11	WAN-WGWC-25	Total/NA	Water	PrecSep_0	
680-239236-12	WAN-AP1-FD-02	Total/NA	Water	PrecSep_0	
680-239236-13	WAN-AP1-FB-07	Total/NA	Water	PrecSep_0	
MB 160-625149/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-625149/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-625149/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Lab Chronicle

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

Job ID: 680-239236-2

Client Sample ID: WAN-WGWA-1

Lab Sample ID: 680-239236-1

Date Collected: 08/14/23 16:01

Matrix: Water

Date Received: 08/17/23 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			992.66 mL	1.0 g	625145	08/23/23 09:49	KAC	EET SL
Total/NA	Analysis	9315		1	1.0 mL	1.0 mL	628293	09/15/23 07:42	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			992.66 mL	1.0 g	625147	08/23/23 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			627787	09/12/23 12:05	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629035	09/20/23 17:26	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-239236-2

Date Collected: 08/14/23 14:23

Matrix: Water

Date Received: 08/17/23 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			995.29 mL	1.0 g	625145	08/23/23 09:49	KAC	EET SL
Total/NA	Analysis	9315		1	1.0 mL	1.0 mL	628293	09/15/23 07:42	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			995.29 mL	1.0 g	625147	08/23/23 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			627787	09/12/23 12:05	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629035	09/20/23 17:26	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-3

Lab Sample ID: 680-239236-3

Date Collected: 08/15/23 10:28

Matrix: Water

Date Received: 08/17/23 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			997.26 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629181	09/21/23 21:15	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			997.26 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:17	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-239236-4

Date Collected: 08/15/23 11:51

Matrix: Water

Date Received: 08/17/23 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			1000.14 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629177	09/21/23 21:16	FLC	EET SL
Instrument ID: GFPCRED										

Eurofins Savannah

Lab Chronicle

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

Job ID: 680-239236-2

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-239236-4

Date Collected: 08/15/23 11:51

Matrix: Water

Date Received: 08/17/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.14 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:17	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-5

Lab Sample ID: 680-239236-5

Date Collected: 08/15/23 15:16

Matrix: Water

Date Received: 08/17/23 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			994.37 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629177	09/21/23 21:16	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			994.37 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:17	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-6

Lab Sample ID: 680-239236-6

Date Collected: 08/15/23 11:10

Matrix: Water

Date Received: 08/17/23 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			1008.59 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629177	09/21/23 21:16	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1008.59 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:17	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-239236-7

Date Collected: 08/15/23 13:50

Matrix: Water

Date Received: 08/17/23 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			992.28 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629177	09/21/23 21:16	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			992.28 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:17	FLC	EET SL
Instrument ID: GFPCBLUE										

Lab Chronicle

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

Job ID: 680-239236-2

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-239236-7

Date Collected: 08/15/23 13:50

Matrix: Water

Date Received: 08/17/23 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			629969	09/28/23 12:15	SCB	EET SL

Client Sample ID: WAN-WGWA-18

Lab Sample ID: 680-239236-8

Date Collected: 08/15/23 14:15

Matrix: Water

Date Received: 08/17/23 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			1003.23 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629493	09/25/23 20:21	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1003.23 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:18	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-239236-9

Date Collected: 08/15/23 17:07

Matrix: Water

Date Received: 08/17/23 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			992.71 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629493	09/25/23 20:21	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			992.71 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:18	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-16

Lab Sample ID: 680-239236-10

Date Collected: 08/15/23 15:56

Matrix: Water

Date Received: 08/17/23 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			996.30 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629493	09/25/23 20:21	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			996.30 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:19	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 680-239236-2

Client Sample ID: WAN-WGWC-25

Lab Sample ID: 680-239236-11

Date Collected: 08/15/23 17:50

Matrix: Water

Date Received: 08/17/23 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			996.38 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629493	09/25/23 20:21	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			996.38 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:19	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-239236-12

Date Collected: 08/15/23 00:00

Matrix: Water

Date Received: 08/17/23 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			999.80 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629493	09/25/23 20:21	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			999.80 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:19	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-FB-07

Lab Sample ID: 680-239236-13

Date Collected: 08/15/23 17:30

Matrix: Water

Date Received: 08/17/23 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			993.22 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629493	09/25/23 20:21	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			993.22 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:19	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 680-239236-2

Laboratory: Eurofins St. Louis

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87689	06-30-24

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

Method Summary

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

Job ID: 680-239236-2

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

Protocol References:

None = None

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

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

Laboratory References:

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



Client Information
 Client Contact: T. Goble ACC Sampler: T. Goble ACC
 SCS Contacts: 770-594-5998 H. Ajid Fuller, David
 Company: GA Power Lab PM: Fuller, David
 E-Mail: david.fuller@et.eurofins.com

Address: 241 Ralph McGill Blvd SE Due Date Requested:
 City: Atlanta TAT Requested (days):
 State, zip: GA, 30308
 Phone: 404-506-7116(Tel) Lab Project #: 68027766
 Email: PO #:
 SCS Contacts / Geosyntec Contacts
 Project Name: Plant Wansley Ash Pond Project #:
 Site: SSOW#:

Carrier Tracking No(s):
 Job #: 1052
 COC No: 1052
 Page: 1 of 2

Analysis Requested
 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)
 App IV Metals (EPA 6020/7470):
 Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,TL
 Radium 226 & 228 (SW-846 9315/9320)

Preservation Codes:
 A - HCl M - Hexane
 B - NaOH N - None
 C - Zn Acetate O - AsNaO2
 D - Nitric Acid P - Na2O4S
 E - NaHSO4 Q - Na2SO3
 F - MeOH R - Na2S2O3
 G - Amchlor S - H2SO4
 H - Ascorbic Acid T - TSP Dodecalhydrate
 I - Ice U - Acetone
 J - DI Water V - MCAA
 K - EDTA W - pH 4.5
 L - EDTA Z - other (specify)
 Other:

Task Code: WAN-CCR-ASSMT-2023S2
 Special Instructions/Note:
Full APP III and APP IV

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (if ground water, W=quantity control)	Preservation Code:	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)	App IV Metals (EPA 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,TL	Radium 226 & 228 (SW-846 9315/9320)	Total Number of containers
WAN- WGW/A-1	08/14/23	1601	G	WG	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	D	I	D	D	5
WAN- WGW/A-2	08/14/23	1423	G	WG	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✓	✓	✓	✓	5
WAN- WGW/A-3	08/15/23	1028	G	WG	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✓	✓	✓	✓	5
WAN- WGW/A-4	08/15/23	1151	G	WG	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✓	✓	✓	✓	5
WAN- WGW/A-5	08/15/23	1516	G	WG	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✓	✓	✓	✓	5
WAN- WGW/A-6	08/15/23	1110	G	WG	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✓	✓	✓	✓	5
WAN- WGW/A-7	08/15/23	1350	G	WG	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✓	✓	✓	✓	5
WAN- WGW/A-18	08/15/23	1415	G	WG	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✓	✓	✓	✓	5
WAN- WGW/L-8	08/15/23	1767	G	WG	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✓	✓	✓	✓	5
WAN- WGW/L-16	08/15/23	1556	G	WG	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✓	✓	✓	✓	5
WAN- WGW/L-25	08/15/23	1750	G	WG	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✓	✓	✓	✓	5



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

Deliverable Requested: I, II, III, IV, Other (specify)
 Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: Michael Mackey Date/Time: 08/16/23 01520 Company: Acc
 Relinquished by: Michael Mackey Date/Time: 8/16/23 1520 Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____
 Received by: Michael Mackey Date/Time: 8/16/23 15:30 Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____
 Received by: Michael Mackey Date/Time: 8/16/23 0900 Company: _____

Custody Seals Intact: Δ Yes Δ No Custody Seal No.: _____
 Cooler Temperature(s) and Other Remarks: 28.3/29 28/29 19/20 36/37 3.2/5.3

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-239236-2

Login Number: 239236

List Number: 1

Creator: Johnson, Corey M

List Source: Eurofins Savannah

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-239236-2

Login Number: 239236

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 08/21/23 01:10 PM

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





ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/29/2023 4:57:24 PM

JOB DESCRIPTION

Plant Wansley Ash Pond

JOB NUMBER

680-239334-1

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
8/29/2023 4:57:24 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

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

Job ID: 680-239334-1

Qualifiers

HPLC/IC

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

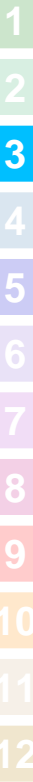
Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (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

Sample Summary

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

Job ID: 680-239334-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-239334-1	WAN-WGWC-9	Water	08/16/23 09:45	08/19/23 09:00
680-239334-2	WAN-WGWC-10	Water	08/17/23 12:05	08/19/23 09:00
680-239334-3	WAN-WGWC-11	Water	08/16/23 10:00	08/19/23 09:00
680-239334-4	WAN-WGWC-12	Water	08/16/23 11:48	08/19/23 09:00
680-239334-5	WAN-WGWC-13	Water	08/16/23 15:25	08/19/23 09:00
680-239334-6	WAN-WGWC-14A	Water	08/16/23 14:01	08/19/23 09:00
680-239334-7	WAN-WGWC-15	Water	08/16/23 13:59	08/19/23 09:00
680-239334-8	WAN-WGWC-17	Water	08/16/23 15:15	08/19/23 09:00
680-239334-9	WAN-WGWC-19	Water	08/16/23 15:35	08/19/23 09:00
680-239334-10	WAN-WGWC-21	Water	08/17/23 10:45	08/19/23 09:00
680-239334-11	WAN-WGWC-22	Water	08/17/23 12:10	08/19/23 09:00
680-239334-12	WAN-WGWC-23	Water	08/17/23 11:10	08/19/23 09:00
680-239334-13	WAN-WGWC-24	Water	08/17/23 10:04	08/19/23 09:00
680-239334-14	WAN-PZ-26D	Water	08/17/23 11:46	08/19/23 09:00
680-239334-15	WAN-AP1-FD-01	Water	08/16/23 00:00	08/19/23 09:00
680-239334-16	WAN-AP1-FD-03	Water	08/17/23 00:00	08/19/23 09:00
680-239334-17	WAN-AP1-FB-08	Water	08/16/23 11:00	08/19/23 09:00
680-239334-18	WAN-AP1-FB-09	Water	08/17/23 11:30	08/19/23 09:00
680-239334-19	WAN-AP1-EB-01	Water	08/16/23 10:05	08/19/23 09:00
680-239334-20	WAN-AP1-EB-02	Water	08/17/23 09:20	08/19/23 09:00
680-239334-21	WAN-AP1-EB-03	Water	08/17/23 11:35	08/19/23 09:00



Case Narrative

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

Job ID: 680-239334-1

Job ID: 680-239334-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-239334-1

Receipt

The samples were received on 8/19/2023 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 4 coolers at receipt time were 4.0°C, 4.2°C, 4.4°C and 5.3°C

HPLC/IC

Method 300_ORGFM_28D: Due to the high concentration of Chloride, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 680-794720 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

Metals

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

General Chemistry

Method 2540C: Constant weight was not achieved after 3 drying cycles for the following samples: WAN-WGWC-11 (680-239334-3), WAN-WGWC-12 (680-239334-4), WAN-WGWC-14A (680-239334-6), WAN-WGWC-19 (680-239334-9) and WAN-AP1-FD-01 (680-239334-15). The samples had to be re-analyzed one day outside of the 7 day holding time.

Method 2540C: A lesser volume of sample was used for the following samples due to the nature of the sample matrix resulting in elevated reporting limits: WAN-WGWC-15 (680-239334-7), WAN-WGWC-21 (680-239334-10), WAN-WGWC-22 (680-239334-11), WAN-WGWC-24 (680-239334-13) and WAN-PZ-26D (680-239334-14).

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-794541 was outside control limits: (680-239334-C-7 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

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

Client Sample Results

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

Job ID: 680-239334-1

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-239334-1

Date Collected: 08/16/23 09:45

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.3		1.0	0.20	mg/L			08/22/23 23:50	1
Fluoride	0.90		0.10	0.040	mg/L			08/22/23 23:50	1
Sulfate	50		1.0	0.40	mg/L			08/22/23 23:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0011	J	0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 15:05	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 15:05	1
Barium	<0.00089		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 15:05	1
Beryllium	0.00040	J	0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 15:05	1
Boron	0.60	F1	0.080	0.022	mg/L		08/21/23 05:49	08/21/23 15:05	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 15:05	1
Calcium	11	F1	0.50	0.14	mg/L		08/21/23 05:49	08/21/23 15:05	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 15:05	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 15:05	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 15:05	1
Lithium	0.030		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 15:05	1
Molybdenum	0.0031	J	0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 15:05	1
Selenium	0.0036	J	0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 15:05	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 15:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/23 16:16	08/24/23 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	110		10	10	mg/L			08/22/23 13:51	1

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-239334-2

Date Collected: 08/17/23 12:05

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.20	mg/L			08/23/23 00:28	1
Fluoride	0.10		0.10	0.040	mg/L			08/23/23 00:28	1
Sulfate	1.7		1.0	0.40	mg/L			08/23/23 00:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 15:17	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 15:17	1
Barium	0.036		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 15:17	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 15:17	1
Boron	0.031	J	0.080	0.022	mg/L		08/21/23 05:49	08/21/23 15:17	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 15:17	1
Calcium	8.0		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 15:17	1
Chromium	0.0029		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 15:17	1
Cobalt	0.00038	J	0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 15:17	1

Eurofins Savannah

Client Sample Results

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

Job ID: 680-239334-1

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-239334-2

Date Collected: 08/17/23 12:05

Matrix: Water

Date Received: 08/19/23 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 15:17	1
Lithium	0.0024	J	0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 15:17	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 15:17	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 15:17	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 15:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	56		10	10	mg/L			08/22/23 13:51	1

Client Sample ID: WAN-WGWC-11

Lab Sample ID: 680-239334-3

Date Collected: 08/16/23 10:00

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.3		1.0	0.20	mg/L			08/23/23 00:41	1
Fluoride	0.041	J	0.10	0.040	mg/L			08/23/23 00:41	1
Sulfate	1.0		1.0	0.40	mg/L			08/23/23 00:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 15:21	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 15:21	1
Barium	0.044		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 15:21	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 15:21	1
Boron	<0.022		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 15:21	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 15:21	1
Calcium	1.7		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 15:21	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 15:21	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 15:21	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 15:21	1
Lithium	<0.00020		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 15:21	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 15:21	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 15:21	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 15:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	33	H	10	10	mg/L			08/24/23 11:56	1

Client Sample Results

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

Job ID: 680-239334-1

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-239334-4

Date Collected: 08/16/23 11:48

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.8		1.0	0.20	mg/L			08/23/23 00:53	1
Fluoride	0.083	J	0.10	0.040	mg/L			08/23/23 00:53	1
Sulfate	12		1.0	0.40	mg/L			08/23/23 00:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 15:25	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 15:25	1
Barium	0.017		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 15:25	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 15:25	1
Boron	<0.022		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 15:25	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 15:25	1
Calcium	15		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 15:25	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 15:25	1
Cobalt	0.00025	J	0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 15:25	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 15:25	1
Lithium	0.0056		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 15:25	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 15:25	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 15:25	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 15:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	92	H	10	10	mg/L			08/24/23 11:56	1

Client Sample ID: WAN-WGWC-13

Lab Sample ID: 680-239334-5

Date Collected: 08/16/23 15:25

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.91	J	1.0	0.20	mg/L			08/23/23 01:06	1
Fluoride	0.13		0.10	0.040	mg/L			08/23/23 01:06	1
Sulfate	2.1		1.0	0.40	mg/L			08/23/23 01:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 15:29	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 15:29	1
Barium	0.042		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 15:29	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 15:29	1
Boron	<0.022		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 15:29	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 15:29	1
Calcium	4.1		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 15:29	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 15:29	1
Cobalt	0.00024	J	0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 15:29	1

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Client Sample Results

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

Job ID: 680-239334-1

Client Sample ID: WAN-WGWC-13

Lab Sample ID: 680-239334-5

Date Collected: 08/16/23 15:25

Matrix: Water

Date Received: 08/19/23 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00025	J	0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 15:29	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 15:29	1
Molybdenum	0.0012	J	0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 15:29	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 15:29	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 15:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	84		10	10	mg/L			08/22/23 13:51	1

Client Sample ID: WAN-WGWC-14A

Lab Sample ID: 680-239334-6

Date Collected: 08/16/23 14:01

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.20	mg/L			08/23/23 01:19	1
Fluoride	0.040	J	0.10	0.040	mg/L			08/23/23 01:19	1
Sulfate	0.52	J	1.0	0.40	mg/L			08/23/23 01:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 15:33	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 15:33	1
Barium	0.026		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 15:33	1
Beryllium	0.00023	J	0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 15:33	1
Boron	<0.022		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 15:33	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 15:33	1
Calcium	0.70		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 15:33	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 15:33	1
Cobalt	0.0020	J	0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 15:33	1
Lead	0.00022	J	0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 15:33	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 15:33	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 15:33	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 15:33	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 15:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	29	H	10	10	mg/L			08/24/23 11:56	1

Client Sample Results

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

Job ID: 680-239334-1

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-239334-7

Date Collected: 08/16/23 13:59

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.95	J	1.0	0.20	mg/L			08/23/23 01:31	1
Fluoride	0.73		0.10	0.040	mg/L			08/23/23 01:31	1
Sulfate	13		1.0	0.40	mg/L			08/23/23 01:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 15:46	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 15:46	1
Barium	0.030		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 15:46	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 15:46	1
Boron	<0.022		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 15:46	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 15:46	1
Calcium	32		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 15:46	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 15:46	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 15:46	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 15:46	1
Lithium	0.0055		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 15:46	1
Molybdenum	0.0030	J	0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 15:46	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 15:46	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 15:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	150		40	40	mg/L			08/22/23 13:51	1

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-239334-8

Date Collected: 08/16/23 15:15

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.1		1.0	0.20	mg/L			08/23/23 01:44	1
Fluoride	0.064	J	0.10	0.040	mg/L			08/23/23 01:44	1
Sulfate	2.6		1.0	0.40	mg/L			08/23/23 01:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 15:50	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 15:50	1
Barium	0.012		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 15:50	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 15:50	1
Boron	<0.022		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 15:50	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 15:50	1
Calcium	6.3		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 15:50	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 15:50	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 15:50	1

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Client Sample Results

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

Job ID: 680-239334-1

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-239334-8

Date Collected: 08/16/23 15:15

Matrix: Water

Date Received: 08/19/23 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 15:50	1
Lithium	0.0031	J	0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 15:50	1
Molybdenum	0.0023	J	0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 15:50	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 15:50	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 15:50	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	81		10	10	mg/L			08/22/23 13:51	1

Client Sample ID: WAN-WGWC-19

Lab Sample ID: 680-239334-9

Date Collected: 08/16/23 15:35

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.5		1.0	0.20	mg/L			08/23/23 01:57	1
Fluoride	0.34		0.10	0.040	mg/L			08/23/23 01:57	1
Sulfate	2.6		1.0	0.40	mg/L			08/23/23 01:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 15:54	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 15:54	1
Barium	0.0014	J	0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 15:54	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 15:54	1
Boron	<0.022		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 15:54	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 15:54	1
Calcium	14		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 15:54	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 15:54	1
Cobalt	0.00026	J	0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 15:54	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 15:54	1
Lithium	0.062		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 15:54	1
Molybdenum	0.0013	J	0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 15:54	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 15:54	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 15:54	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	100	H	10	10	mg/L			08/24/23 11:56	1

Client Sample Results

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

Job ID: 680-239334-1

Client Sample ID: WAN-WGWC-21

Lab Sample ID: 680-239334-10

Date Collected: 08/17/23 10:45

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47		1.0	0.20	mg/L			08/23/23 02:10	1
Fluoride	1.8		0.10	0.040	mg/L			08/23/23 02:10	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	310		2.0	0.80	mg/L			08/23/23 12:50	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 15:58	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 15:58	1
Barium	0.0044	J	0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 15:58	1
Beryllium	0.00021	J	0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 15:58	1
Boron	0.12		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 15:58	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 15:58	1
Calcium	63		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 15:58	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 15:58	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 15:58	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 15:58	1
Lithium	0.061		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 15:58	1
Molybdenum	0.029		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 15:58	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 15:58	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 15:58	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	690		40	40	mg/L			08/22/23 13:51	1

Client Sample ID: WAN-WGWC-22

Lab Sample ID: 680-239334-11

Date Collected: 08/17/23 12:10

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.9		1.0	0.20	mg/L			08/23/23 12:00	1
Fluoride	0.32		0.10	0.040	mg/L			08/23/23 12:00	1
Sulfate	71		1.0	0.40	mg/L			08/23/23 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 16:02	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 16:02	1
Barium	0.021		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 16:02	1
Beryllium	0.00060	J	0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 16:02	1
Boron	0.33		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 16:02	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 16:02	1

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Client Sample Results

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

Job ID: 680-239334-1

Client Sample ID: WAN-WGWC-22

Lab Sample ID: 680-239334-11

Date Collected: 08/17/23 12:10

Matrix: Water

Date Received: 08/19/23 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	16		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 16:02	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 16:02	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 16:02	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 16:02	1
Lithium	0.0069		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 16:02	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 16:02	1
Selenium	0.0038	J	0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 16:02	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 16:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	180		40	40	mg/L			08/24/23 11:56	1

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-239334-12

Date Collected: 08/17/23 11:10

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.20	mg/L			08/23/23 13:02	1
Fluoride	0.045	J	0.10	0.040	mg/L			08/23/23 13:02	1
Sulfate	4.9		1.0	0.40	mg/L			08/23/23 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 16:06	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 16:06	1
Barium	0.010		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 16:06	1
Beryllium	0.0013	J	0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 16:06	1
Boron	<0.022		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 16:06	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 16:06	1
Calcium	4.2		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 16:06	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 16:06	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 16:06	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 16:06	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 16:06	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 16:06	1
Selenium	0.0024	J	0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 16:06	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 16:06	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:28	1

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Client Sample Results

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

Job ID: 680-239334-1

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-239334-12

Date Collected: 08/17/23 11:10

Matrix: Water

Date Received: 08/19/23 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	73		10	10	mg/L			08/24/23 11:56	1

Client Sample ID: WAN-WGWC-24

Lab Sample ID: 680-239334-13

Date Collected: 08/17/23 10:04

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22		1.0	0.20	mg/L			08/23/23 13:15	1
Fluoride	0.28		0.10	0.040	mg/L			08/23/23 13:15	1
Sulfate	50		1.0	0.40	mg/L			08/23/23 13:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 16:10	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 16:10	1
Barium	0.046		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 16:10	1
Beryllium	0.0049		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 16:10	1
Boron	0.59		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 16:10	1
Cadmium	0.000095	J	0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 16:10	1
Calcium	18		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 16:10	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 16:10	1
Cobalt	0.035		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 16:10	1
Lead	0.00029	J	0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 16:10	1
Lithium	0.0022	J	0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 16:10	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 16:10	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 16:10	1
Thallium	0.00028	J	0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 16:10	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	150		40	40	mg/L			08/24/23 11:56	1

Client Sample ID: WAN-PZ-26D

Lab Sample ID: 680-239334-14

Date Collected: 08/17/23 11:46

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		1.0	0.20	mg/L			08/23/23 13:28	1
Fluoride	0.22		0.10	0.040	mg/L			08/23/23 13:28	1
Sulfate	31		1.0	0.40	mg/L			08/23/23 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00038	J	0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 16:14	1

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Client Sample Results

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

Job ID: 680-239334-1

Client Sample ID: WAN-PZ-26D

Lab Sample ID: 680-239334-14

Date Collected: 08/17/23 11:46

Matrix: Water

Date Received: 08/19/23 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 16:14	1
Barium	0.024		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 16:14	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 16:14	1
Boron	0.080		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 16:14	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 16:14	1
Calcium	16		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 16:14	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 16:14	1
Cobalt	0.017		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 16:14	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 16:14	1
Lithium	0.028		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 16:14	1
Molybdenum	0.0025 J		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 16:14	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 16:14	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 16:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	150		40	40	mg/L			08/24/23 11:56	1

Client Sample ID: WAN-AP1-FD-01

Lab Sample ID: 680-239334-15

Date Collected: 08/16/23 00:00

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.20	mg/L			08/23/23 13:40	1
Fluoride	0.33		0.10	0.040	mg/L			08/23/23 13:40	1
Sulfate	2.7		1.0	0.40	mg/L			08/23/23 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 16:18	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 16:18	1
Barium	0.0012 J		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 16:18	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 16:18	1
Boron	<0.022		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 16:18	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 16:18	1
Calcium	13		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 16:18	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 16:18	1
Cobalt	0.00025 J		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 16:18	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 16:18	1
Lithium	0.059		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 16:18	1
Molybdenum	0.0014 J		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 16:18	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 16:18	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 16:18	1

Client Sample Results

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

Job ID: 680-239334-1

Client Sample ID: WAN-AP1-FD-01

Lab Sample ID: 680-239334-15

Date Collected: 08/16/23 00:00

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	110	H	10	10	mg/L			08/24/23 11:56	1

Client Sample ID: WAN-AP1-FD-03

Lab Sample ID: 680-239334-16

Date Collected: 08/17/23 00:00

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22		2.0	0.40	mg/L			08/23/23 13:53	2
Fluoride	0.24		0.20	0.080	mg/L			08/23/23 13:53	2
Sulfate	50		2.0	0.80	mg/L			08/23/23 13:53	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 16:22	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 16:22	1
Barium	0.047		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 16:22	1
Beryllium	0.0049		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 16:22	1
Boron	0.60		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 16:22	1
Cadmium	0.00010	J	0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 16:22	1
Calcium	17		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 16:22	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 16:22	1
Cobalt	0.035		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 16:22	1
Lead	0.00030	J	0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 16:22	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 16:22	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 16:22	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 16:22	1
Thallium	0.00028	J	0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 16:22	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	140		10	10	mg/L			08/24/23 11:56	1

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-239334-17

Date Collected: 08/16/23 11:00

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/23/23 14:06	1
Fluoride	0.37		0.10	0.040	mg/L			08/23/23 14:06	1
Sulfate	<0.40		1.0	0.40	mg/L			08/23/23 14:06	1

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Client Sample Results

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

Job ID: 680-239334-1

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-239334-17

Date Collected: 08/16/23 11:00

Matrix: Water

Date Received: 08/19/23 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 16:34	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 16:34	1
Barium	<0.00089		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 16:34	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 16:34	1
Boron	<0.022		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 16:34	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 16:34	1
Calcium	<0.14		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 16:34	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 16:34	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 16:34	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 16:34	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 16:34	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 16:34	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 16:34	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 16:34	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			08/22/23 13:51	1

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-239334-18

Date Collected: 08/17/23 11:30

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/23/23 14:18	1
Fluoride	0.29		0.10	0.040	mg/L			08/23/23 14:18	1
Sulfate	<0.40		1.0	0.40	mg/L			08/23/23 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 16:38	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 16:38	1
Barium	<0.00089		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 16:38	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 16:38	1
Boron	<0.022		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 16:38	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 16:38	1
Calcium	<0.14		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 16:38	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 16:38	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 16:38	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 16:38	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 16:38	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 16:38	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 16:38	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 16:38	1

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Client Sample Results

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

Job ID: 680-239334-1

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-239334-18

Date Collected: 08/17/23 11:30

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			08/24/23 11:56	1

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-239334-19

Date Collected: 08/16/23 10:05

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/23/23 14:31	1
Fluoride	0.37		0.10	0.040	mg/L			08/23/23 14:31	1
Sulfate	<0.40		1.0	0.40	mg/L			08/23/23 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 16:42	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 16:42	1
Barium	0.0038	J	0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 16:42	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 16:42	1
Boron	<0.022		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 16:42	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 16:42	1
Calcium	<0.14		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 16:42	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 16:42	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 16:42	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 16:42	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 16:42	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 16:42	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 16:42	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 16:42	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			08/22/23 13:51	1

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-239334-20

Date Collected: 08/17/23 09:20

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/23/23 15:47	1
Fluoride	0.50		0.10	0.040	mg/L			08/23/23 15:47	1
Sulfate	<0.40		1.0	0.40	mg/L			08/23/23 15:47	1

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Client Sample Results

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

Job ID: 680-239334-1

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-239334-20

Date Collected: 08/17/23 09:20

Matrix: Water

Date Received: 08/19/23 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 16:46	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 16:46	1
Barium	0.0024	J	0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 16:46	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 16:46	1
Boron	<0.022		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 16:46	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 16:46	1
Calcium	0.14	J	0.50	0.14	mg/L		08/21/23 05:49	08/21/23 16:46	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 16:46	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 16:46	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 16:46	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 16:46	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 16:46	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 16:46	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 16:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			08/24/23 11:56	1

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-239334-21

Date Collected: 08/17/23 11:35

Matrix: Water

Date Received: 08/19/23 09:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/23/23 23:35	1
Fluoride	0.58		0.10	0.040	mg/L			08/23/23 23:35	1
Sulfate	<0.40		1.0	0.40	mg/L			08/23/23 23:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 06:21	08/21/23 21:18	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 06:21	08/21/23 21:18	1
Barium	<0.00089		0.010	0.00089	mg/L		08/21/23 06:21	08/21/23 21:18	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 06:21	08/21/23 21:18	1
Boron	<0.022		0.080	0.022	mg/L		08/21/23 06:21	08/22/23 12:21	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 06:21	08/21/23 21:18	1
Calcium	<0.14		0.50	0.14	mg/L		08/21/23 06:21	08/21/23 21:18	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 06:21	08/21/23 21:18	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/21/23 06:21	08/21/23 21:18	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 06:21	08/21/23 21:18	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/21/23 06:21	08/21/23 21:18	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/21/23 06:21	08/21/23 21:18	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 06:21	08/21/23 21:18	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 06:21	08/21/23 21:18	1

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Client Sample Results

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

Job ID: 680-239334-1

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-239334-21

Date Collected: 08/17/23 11:35

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/28/23 16:44	08/29/23 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			08/24/23 11:56	1



QC Sample Results

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

Job ID: 680-239334-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-794492/63
Matrix: Water
Analysis Batch: 794492

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.20		1.0	0.20	mg/L			08/22/23 23:12	1
Fluoride	<0.040		0.10	0.040	mg/L			08/22/23 23:12	1
Sulfate	<0.40		1.0	0.40	mg/L			08/22/23 23:12	1

Lab Sample ID: LCS 680-794492/81
Matrix: Water
Analysis Batch: 794492

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	2.00	2.01		mg/L		101	90 - 110
Sulfate	10.0	9.56		mg/L		96	90 - 110

Lab Sample ID: LCSD 680-794492/80
Matrix: Water
Analysis Batch: 794492

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	2.00	2.02		mg/L		101	90 - 110	0	15
Sulfate	10.0	9.61		mg/L		96	90 - 110	1	15

Lab Sample ID: 680-239334-1 MS
Matrix: Water
Analysis Batch: 794492

Client Sample ID: WAN-WGWC-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.90		2.00	2.98		mg/L		104	80 - 120
Sulfate	50		10.0	60.5	4	mg/L		101	80 - 120

Lab Sample ID: 680-239334-1 MSD
Matrix: Water
Analysis Batch: 794492

Client Sample ID: WAN-WGWC-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.90		2.00	2.90		mg/L		100	80 - 120	3	15
Sulfate	50		10.0	59.9	4	mg/L		95	80 - 120	1	15

Lab Sample ID: MB 680-794720/2
Matrix: Water
Analysis Batch: 794720

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.20		1.0	0.20	mg/L			08/23/23 10:59	1
Fluoride	<0.040		0.10	0.040	mg/L			08/23/23 10:59	1
Sulfate	<0.40		1.0	0.40	mg/L			08/23/23 10:59	1

QC Sample Results

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

Job ID: 680-239334-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-794720/4
Matrix: Water
Analysis Batch: 794720

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	10.0	9.87		mg/L		99	90 - 110	
Fluoride	2.00	2.01		mg/L		100	90 - 110	
Sulfate	10.0	9.64		mg/L		96	90 - 110	

Lab Sample ID: LCSD 680-794720/5
Matrix: Water
Analysis Batch: 794720

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
									RPD	Limit
Chloride	10.0	9.84		mg/L		98	90 - 110	0	15	
Fluoride	2.00	2.01		mg/L		101	90 - 110	0	15	
Sulfate	10.0	9.70		mg/L		97	90 - 110	1	15	

Lab Sample ID: 680-239334-11 MS
Matrix: Water
Analysis Batch: 794720

Client Sample ID: WAN-WGWC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	3.9		10.0	13.0		mg/L		92	80 - 120	
Fluoride	0.32		2.00	2.36		mg/L		102	80 - 120	
Sulfate	71		10.0	80.8	4	mg/L		97	80 - 120	

Lab Sample ID: 680-239334-11 MSD
Matrix: Water
Analysis Batch: 794720

Client Sample ID: WAN-WGWC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
											RPD	Limit
Chloride	3.9		10.0	13.3		mg/L		95	80 - 120	2	15	
Fluoride	0.32		2.00	2.42		mg/L		105	80 - 120	2	15	
Sulfate	71		10.0	81.1	4	mg/L		100	80 - 120	0	15	

Lab Sample ID: 752-10769-D-1 MS
Matrix: Water
Analysis Batch: 794720

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	96		10.0	117	4	mg/L		207	80 - 120	
Fluoride	0.053	J	2.00	1.69		mg/L		82	80 - 120	
Sulfate	1.8		10.0	11.8		mg/L		100	80 - 120	

Lab Sample ID: 752-10769-D-1 MSD
Matrix: Water
Analysis Batch: 794720

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
											RPD	Limit
Chloride	96		10.0	119	4	mg/L		228	80 - 120	2	15	
Fluoride	0.053	J	2.00	1.72		mg/L		83	80 - 120	2	15	
Sulfate	1.8		10.0	11.7		mg/L		99	80 - 120	1	15	

QC Sample Results

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

Job ID: 680-239334-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 680-794721/33
Matrix: Water
Analysis Batch: 794721

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.20		1.0	0.20	mg/L			08/23/23 17:53	1
Fluoride	<0.040		0.10	0.040	mg/L			08/23/23 17:53	1
Sulfate	<0.40		1.0	0.40	mg/L			08/23/23 17:53	1

Lab Sample ID: LCS 680-794721/34
Matrix: Water
Analysis Batch: 794721

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	2.00	2.01		mg/L		100	90 - 110
Sulfate	10.0	9.71		mg/L		97	90 - 110

Lab Sample ID: LCSD 680-794721/35
Matrix: Water
Analysis Batch: 794721

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	2.00	2.01		mg/L		101	90 - 110	0	15
Sulfate	10.0	9.73		mg/L		97	90 - 110	0	15

Lab Sample ID: 190-32465-A-11 MS
Matrix: Water
Analysis Batch: 794721

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.31		2.00	2.32		mg/L		101	80 - 120
Sulfate	55		10.0	64.9	4	mg/L		100	80 - 120

Lab Sample ID: 190-32465-A-11 MSD
Matrix: Water
Analysis Batch: 794721

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.31		2.00	2.36		mg/L		103	80 - 120	2	15
Sulfate	55		10.0	65.1	4	mg/L		102	80 - 120	0	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-794238/1-A
Matrix: Water
Analysis Batch: 794434

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 794238

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 05:49	08/21/23 14:57	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 05:49	08/21/23 14:57	1
Barium	<0.00089		0.010	0.00089	mg/L		08/21/23 05:49	08/21/23 14:57	1

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QC Sample Results

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

Job ID: 680-239334-1

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

Lab Sample ID: MB 680-794238/1-A
Matrix: Water
Analysis Batch: 794434

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 794238

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 05:49	08/21/23 14:57	1
Boron	<0.022		0.080	0.022	mg/L		08/21/23 05:49	08/21/23 14:57	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 05:49	08/21/23 14:57	1
Calcium	<0.14		0.50	0.14	mg/L		08/21/23 05:49	08/21/23 14:57	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/21/23 05:49	08/21/23 14:57	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/21/23 05:49	08/21/23 14:57	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 05:49	08/21/23 14:57	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/21/23 05:49	08/21/23 14:57	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/21/23 05:49	08/21/23 14:57	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 05:49	08/21/23 14:57	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 05:49	08/21/23 14:57	1

Lab Sample ID: LCS 680-794238/2-A
Matrix: Water
Analysis Batch: 794434

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 794238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.107		mg/L		107	80 - 120
Barium	0.100	0.102		mg/L		102	80 - 120
Beryllium	0.0500	0.0524		mg/L		105	80 - 120
Boron	0.200	0.211		mg/L		105	80 - 120
Cadmium	0.0500	0.0531		mg/L		106	80 - 120
Calcium	5.00	5.35		mg/L		107	80 - 120
Chromium	0.100	0.110		mg/L		110	80 - 120
Cobalt	0.0500	0.0563		mg/L		113	80 - 120
Lead	0.500	0.521		mg/L		104	80 - 120
Lithium	0.500	0.516		mg/L		103	80 - 120
Molybdenum	0.100	0.110		mg/L		110	80 - 120
Selenium	0.100	0.109		mg/L		109	80 - 120
Thallium	0.0500	0.0497		mg/L		99	80 - 120

Lab Sample ID: 680-239334-1 MS
Matrix: Water
Analysis Batch: 794434

Client Sample ID: WAN-WGWC-9
Prep Type: Total Recoverable
Prep Batch: 794238

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Antimony	0.0011	J	0.0500	0.0534		mg/L		105	75 - 125
Arsenic	<0.00086		0.100	0.105		mg/L		105	75 - 125
Barium	<0.00089		0.100	0.101		mg/L		101	75 - 125
Beryllium	0.00040	J	0.0500	0.0512		mg/L		102	75 - 125
Boron	0.60	F1	0.200	0.743	F1	mg/L		70	75 - 125
Cadmium	<0.000078		0.0500	0.0521		mg/L		104	75 - 125
Calcium	11	F1	5.00	14.7	F1	mg/L		74	75 - 125
Chromium	<0.0012		0.100	0.108		mg/L		108	75 - 125
Cobalt	<0.00022		0.0500	0.0549		mg/L		110	75 - 125
Lead	<0.00021		0.500	0.520		mg/L		104	75 - 125
Lithium	0.030		0.500	0.506		mg/L		95	75 - 125
Molybdenum	0.0031	J	0.100	0.109		mg/L		106	75 - 125

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QC Sample Results

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

Job ID: 680-239334-1

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

Lab Sample ID: 680-239334-1 MS
Matrix: Water
Analysis Batch: 794434

Client Sample ID: WAN-WGWC-9
Prep Type: Total Recoverable
Prep Batch: 794238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.0036	J	0.100	0.114		mg/L		111	75 - 125
Thallium	<0.00026		0.0500	0.0492		mg/L		98	75 - 125

Lab Sample ID: 680-239334-1 MSD
Matrix: Water
Analysis Batch: 794434

Client Sample ID: WAN-WGWC-9
Prep Type: Total Recoverable
Prep Batch: 794238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0011	J	0.0500	0.0522		mg/L		102	75 - 125	2	20
Arsenic	<0.00086		0.100	0.104		mg/L		104	75 - 125	1	20
Barium	<0.00089		0.100	0.101		mg/L		101	75 - 125	0	20
Beryllium	0.00040	J	0.0500	0.0549		mg/L		109	75 - 125	7	20
Boron	0.60	F1	0.200	0.808		mg/L		102	75 - 125	8	20
Cadmium	<0.000078		0.0500	0.0513		mg/L		103	75 - 125	2	20
Calcium	11	F1	5.00	14.9		mg/L		78	75 - 125	1	20
Chromium	<0.0012		0.100	0.107		mg/L		107	75 - 125	1	20
Cobalt	<0.00022		0.0500	0.0544		mg/L		109	75 - 125	1	20
Lead	<0.00021		0.500	0.507		mg/L		101	75 - 125	2	20
Lithium	0.030		0.500	0.564		mg/L		107	75 - 125	11	20
Molybdenum	0.0031	J	0.100	0.110		mg/L		107	75 - 125	0	20
Selenium	0.0036	J	0.100	0.112		mg/L		109	75 - 125	2	20
Thallium	<0.00026		0.0500	0.0489		mg/L		98	75 - 125	1	20

Lab Sample ID: MB 680-794239/1-A
Matrix: Water
Analysis Batch: 794434

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 794239

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/21/23 06:21	08/21/23 21:10	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/21/23 06:21	08/21/23 21:10	1
Barium	<0.00089		0.010	0.00089	mg/L		08/21/23 06:21	08/21/23 21:10	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/21/23 06:21	08/21/23 21:10	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/21/23 06:21	08/21/23 21:10	1
Calcium	<0.14		0.50	0.14	mg/L		08/21/23 06:21	08/21/23 21:10	1
Chromium	0.00122	J	0.0020	0.0012	mg/L		08/21/23 06:21	08/21/23 21:10	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/21/23 06:21	08/21/23 21:10	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/21/23 06:21	08/21/23 21:10	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/21/23 06:21	08/21/23 21:10	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/21/23 06:21	08/21/23 21:10	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/21/23 06:21	08/21/23 21:10	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/21/23 06:21	08/21/23 21:10	1

Lab Sample ID: MB 680-794239/1-A
Matrix: Water
Analysis Batch: 794582

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 794239

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.022		0.080	0.022	mg/L		08/21/23 06:21	08/22/23 12:13	1

QC Sample Results

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

Job ID: 680-239334-1

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

Lab Sample ID: LCS 680-794239/2-A
Matrix: Water
Analysis Batch: 794434

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 794239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Antimony	0.0500	0.0528		mg/L		106	80 - 120	
Arsenic	0.100	0.108		mg/L		108	80 - 120	
Barium	0.100	0.102		mg/L		102	80 - 120	
Beryllium	0.0500	0.0508		mg/L		102	80 - 120	
Cadmium	0.0500	0.0522		mg/L		104	80 - 120	
Calcium	5.00	5.29		mg/L		106	80 - 120	
Chromium	0.100	0.109		mg/L		109	80 - 120	
Cobalt	0.0500	0.0558		mg/L		112	80 - 120	
Lead	0.500	0.529		mg/L		106	80 - 120	
Lithium	0.500	0.505		mg/L		101	80 - 120	
Molybdenum	0.100	0.109		mg/L		109	80 - 120	
Selenium	0.100	0.111		mg/L		111	80 - 120	
Thallium	0.0500	0.0498		mg/L		100	80 - 120	

Lab Sample ID: LCS 680-794239/2-A
Matrix: Water
Analysis Batch: 794582

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 794239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Boron	0.200	0.194		mg/L		97	80 - 120	

Lab Sample ID: 680-239334-21 MS
Matrix: Water
Analysis Batch: 794434

Client Sample ID: WAN-AP1-EB-03
Prep Type: Total Recoverable
Prep Batch: 794239

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Antimony	<0.00034		0.0500	0.0520		mg/L		104	75 - 125	
Arsenic	<0.00086		0.100	0.105		mg/L		105	75 - 125	
Barium	<0.00089		0.100	0.103		mg/L		103	75 - 125	
Beryllium	<0.00020		0.0500	0.0504		mg/L		101	75 - 125	
Cadmium	<0.000078		0.0500	0.0515		mg/L		103	75 - 125	
Calcium	<0.14		5.00	5.40		mg/L		108	75 - 125	
Chromium	<0.0012		0.100	0.108		mg/L		108	75 - 125	
Cobalt	<0.00022		0.0500	0.0548		mg/L		110	75 - 125	
Lead	<0.00021		0.500	0.517		mg/L		103	75 - 125	
Lithium	<0.0020		0.500	0.492		mg/L		98	75 - 125	
Molybdenum	<0.00086		0.100	0.106		mg/L		106	75 - 125	
Selenium	<0.00099		0.100	0.109		mg/L		109	75 - 125	
Thallium	<0.00026		0.0500	0.0488		mg/L		98	75 - 125	

Lab Sample ID: 680-239334-21 MS
Matrix: Water
Analysis Batch: 794582

Client Sample ID: WAN-AP1-EB-03
Prep Type: Total Recoverable
Prep Batch: 794239

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Boron	<0.022		0.200	0.192		mg/L		96	75 - 125	

QC Sample Results

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

Job ID: 680-239334-1

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

Lab Sample ID: 680-239334-21 MSD
Matrix: Water
Analysis Batch: 794434

Client Sample ID: WAN-AP1-EB-03
Prep Type: Total Recoverable
Prep Batch: 794239

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Antimony	<0.00034		0.0500	0.0486		mg/L		97	75 - 125	7	20
Arsenic	<0.00086		0.100	0.101		mg/L		101	75 - 125	4	20
Barium	<0.00089		0.100	0.0978		mg/L		98	75 - 125	5	20
Beryllium	<0.00020		0.0500	0.0492		mg/L		98	75 - 125	2	20
Cadmium	<0.000078		0.0500	0.0484		mg/L		97	75 - 125	6	20
Calcium	<0.14		5.00	5.13		mg/L		103	75 - 125	5	20
Chromium	<0.0012		0.100	0.103		mg/L		103	75 - 125	5	20
Cobalt	<0.00022		0.0500	0.0516		mg/L		103	75 - 125	6	20
Lead	<0.00021		0.500	0.499		mg/L		100	75 - 125	4	20
Lithium	<0.0020		0.500	0.472		mg/L		94	75 - 125	4	20
Molybdenum	<0.00086		0.100	0.102		mg/L		102	75 - 125	4	20
Selenium	<0.00099		0.100	0.105		mg/L		105	75 - 125	4	20
Thallium	<0.00026		0.0500	0.0472		mg/L		94	75 - 125	3	20

Lab Sample ID: 680-239334-21 MSD
Matrix: Water
Analysis Batch: 794582

Client Sample ID: WAN-AP1-EB-03
Prep Type: Total Recoverable
Prep Batch: 794239

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Boron	<0.022		0.200	0.223		mg/L		112	75 - 125	15	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-794591/1-A
Matrix: Water
Analysis Batch: 795012

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 794591

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/23 16:16	08/24/23 11:34	1

Lab Sample ID: LCS 680-794591/2-A
Matrix: Water
Analysis Batch: 795012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 794591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Mercury	0.00250	0.00243		mg/L		97	80 - 120

Lab Sample ID: 680-239089-C-1-K MS
Matrix: Water
Analysis Batch: 795012

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 794591

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				Limits
Mercury	<0.000080		0.00100	0.00101		mg/L		101	80 - 120

Lab Sample ID: 680-239089-C-1-L MSD
Matrix: Water
Analysis Batch: 795012

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 794591

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Mercury	<0.000080		0.00100	0.000951		mg/L		95	80 - 120	6	20

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QC Sample Results

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

Job ID: 680-239334-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-794765/1-A
Matrix: Water
Analysis Batch: 795012

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 794765

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/23/23 12:53	08/24/23 13:01	1

Lab Sample ID: LCS 680-794765/2-A
Matrix: Water
Analysis Batch: 795012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 794765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00230		mg/L		92	80 - 120

Lab Sample ID: MB 680-795533/1-A
Matrix: Water
Analysis Batch: 795695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 795533

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/28/23 16:44	08/29/23 12:40	1

Lab Sample ID: LCS 680-795533/2-A
Matrix: Water
Analysis Batch: 795695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 795533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00242		mg/L		97	80 - 120

Lab Sample ID: 680-239303-B-8-D MS
Matrix: Water
Analysis Batch: 795695

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 795533

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080	F1	0.00100	0.000702	F1	mg/L		70	80 - 120

Lab Sample ID: 680-239303-B-8-E MSD
Matrix: Water
Analysis Batch: 795695

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 795533

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080	F1	0.00100	0.000686	F1	mg/L		69	80 - 120	2	20

Lab Sample ID: 680-239089-A-2-H MS
Matrix: Water
Analysis Batch: 795012

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 794765

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080		0.00100	0.000963		mg/L		96	80 - 120

Lab Sample ID: 680-239089-A-2-I MSD
Matrix: Water
Analysis Batch: 795012

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 794765

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080		0.00100	0.000948		mg/L		95	80 - 120	2	20

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QC Sample Results

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

Job ID: 680-239334-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-794541/1
Matrix: Water
Analysis Batch: 794541

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			08/22/23 13:51	1

Lab Sample ID: LCS 680-794541/2
Matrix: Water
Analysis Batch: 794541

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	2380	2400		mg/L		101	80 - 120

Lab Sample ID: LCSD 680-794541/3
Matrix: Water
Analysis Batch: 794541

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2380	2400		mg/L		101	80 - 120	0	25

Lab Sample ID: 680-239334-7 DU
Matrix: Water
Analysis Batch: 794541

Client Sample ID: WAN-WGWC-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	150		132	F5	mg/L		13	5

Lab Sample ID: 680-239334-10 DU
Matrix: Water
Analysis Batch: 794541

Client Sample ID: WAN-WGWC-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	690		684		mg/L		1	5

Lab Sample ID: MB 680-794944/1
Matrix: Water
Analysis Batch: 794944

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			08/24/23 11:56	1

Lab Sample ID: LCS 680-794944/2
Matrix: Water
Analysis Batch: 794944

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	2380	2350		mg/L		99	80 - 120

Lab Sample ID: LCSD 680-794944/3
Matrix: Water
Analysis Batch: 794944

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2380	2360		mg/L		99	80 - 120	0	25

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QC Sample Results

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

Job ID: 680-239334-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: 680-239396-A-1 DU
Matrix: Water
Analysis Batch: 794944

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Total Dissolved Solids	1200		1200		mg/L		0.5	5

Lab Sample ID: 680-239397-A-1 DU
Matrix: Water
Analysis Batch: 794944

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Total Dissolved Solids	1100		1040		mg/L		2	5

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

QC Association Summary

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

Job ID: 680-239334-1

HPLC/IC

Analysis Batch: 794492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-1	WAN-WGWC-9	Total/NA	Water	300.0-1993 R2.1	
680-239334-2	WAN-WGWC-10	Total/NA	Water	300.0-1993 R2.1	
680-239334-3	WAN-WGWC-11	Total/NA	Water	300.0-1993 R2.1	
680-239334-4	WAN-WGWC-12	Total/NA	Water	300.0-1993 R2.1	
680-239334-5	WAN-WGWC-13	Total/NA	Water	300.0-1993 R2.1	
680-239334-6	WAN-WGWC-14A	Total/NA	Water	300.0-1993 R2.1	
680-239334-7	WAN-WGWC-15	Total/NA	Water	300.0-1993 R2.1	
680-239334-8	WAN-WGWC-17	Total/NA	Water	300.0-1993 R2.1	
680-239334-9	WAN-WGWC-19	Total/NA	Water	300.0-1993 R2.1	
680-239334-10	WAN-WGWC-21	Total/NA	Water	300.0-1993 R2.1	
MB 680-794492/63	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-794492/81	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-794492/80	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-239334-1 MS	WAN-WGWC-9	Total/NA	Water	300.0-1993 R2.1	
680-239334-1 MSD	WAN-WGWC-9	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 794720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-10 - DL	WAN-WGWC-21	Total/NA	Water	300.0-1993 R2.1	
680-239334-11	WAN-WGWC-22	Total/NA	Water	300.0-1993 R2.1	
680-239334-12	WAN-WGWC-23	Total/NA	Water	300.0-1993 R2.1	
680-239334-13	WAN-WGWC-24	Total/NA	Water	300.0-1993 R2.1	
680-239334-14	WAN-PZ-26D	Total/NA	Water	300.0-1993 R2.1	
680-239334-15	WAN-AP1-FD-01	Total/NA	Water	300.0-1993 R2.1	
680-239334-16	WAN-AP1-FD-03	Total/NA	Water	300.0-1993 R2.1	
680-239334-17	WAN-AP1-FB-08	Total/NA	Water	300.0-1993 R2.1	
680-239334-18	WAN-AP1-FB-09	Total/NA	Water	300.0-1993 R2.1	
680-239334-19	WAN-AP1-EB-01	Total/NA	Water	300.0-1993 R2.1	
680-239334-20	WAN-AP1-EB-02	Total/NA	Water	300.0-1993 R2.1	
MB 680-794720/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-794720/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-794720/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-239334-11 MS	WAN-WGWC-22	Total/NA	Water	300.0-1993 R2.1	
680-239334-11 MSD	WAN-WGWC-22	Total/NA	Water	300.0-1993 R2.1	
752-10769-D-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
752-10769-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 794721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-21	WAN-AP1-EB-03	Total/NA	Water	300.0-1993 R2.1	
MB 680-794721/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-794721/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-794721/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
190-32465-A-11 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
190-32465-A-11 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 794238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-1	WAN-WGWC-9	Total Recoverable	Water	3005A	

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QC Association Summary

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

Job ID: 680-239334-1

Metals (Continued)

Prep Batch: 794238 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-2	WAN-WGWC-10	Total Recoverable	Water	3005A	
680-239334-3	WAN-WGWC-11	Total Recoverable	Water	3005A	
680-239334-4	WAN-WGWC-12	Total Recoverable	Water	3005A	
680-239334-5	WAN-WGWC-13	Total Recoverable	Water	3005A	
680-239334-6	WAN-WGWC-14A	Total Recoverable	Water	3005A	
680-239334-7	WAN-WGWC-15	Total Recoverable	Water	3005A	
680-239334-8	WAN-WGWC-17	Total Recoverable	Water	3005A	
680-239334-9	WAN-WGWC-19	Total Recoverable	Water	3005A	
680-239334-10	WAN-WGWC-21	Total Recoverable	Water	3005A	
680-239334-11	WAN-WGWC-22	Total Recoverable	Water	3005A	
680-239334-12	WAN-WGWC-23	Total Recoverable	Water	3005A	
680-239334-13	WAN-WGWC-24	Total Recoverable	Water	3005A	
680-239334-14	WAN-PZ-26D	Total Recoverable	Water	3005A	
680-239334-15	WAN-AP1-FD-01	Total Recoverable	Water	3005A	
680-239334-16	WAN-AP1-FD-03	Total Recoverable	Water	3005A	
680-239334-17	WAN-AP1-FB-08	Total Recoverable	Water	3005A	
680-239334-18	WAN-AP1-FB-09	Total Recoverable	Water	3005A	
680-239334-19	WAN-AP1-EB-01	Total Recoverable	Water	3005A	
680-239334-20	WAN-AP1-EB-02	Total Recoverable	Water	3005A	
MB 680-794238/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-794238/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-239334-1 MS	WAN-WGWC-9	Total Recoverable	Water	3005A	
680-239334-1 MSD	WAN-WGWC-9	Total Recoverable	Water	3005A	

Prep Batch: 794239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-21	WAN-AP1-EB-03	Total Recoverable	Water	3005A	
MB 680-794239/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-794239/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-239334-21 MS	WAN-AP1-EB-03	Total Recoverable	Water	3005A	
680-239334-21 MSD	WAN-AP1-EB-03	Total Recoverable	Water	3005A	

Analysis Batch: 794434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-1	WAN-WGWC-9	Total Recoverable	Water	6020B	794238
680-239334-2	WAN-WGWC-10	Total Recoverable	Water	6020B	794238
680-239334-3	WAN-WGWC-11	Total Recoverable	Water	6020B	794238
680-239334-4	WAN-WGWC-12	Total Recoverable	Water	6020B	794238
680-239334-5	WAN-WGWC-13	Total Recoverable	Water	6020B	794238
680-239334-6	WAN-WGWC-14A	Total Recoverable	Water	6020B	794238
680-239334-7	WAN-WGWC-15	Total Recoverable	Water	6020B	794238
680-239334-8	WAN-WGWC-17	Total Recoverable	Water	6020B	794238
680-239334-9	WAN-WGWC-19	Total Recoverable	Water	6020B	794238
680-239334-10	WAN-WGWC-21	Total Recoverable	Water	6020B	794238
680-239334-11	WAN-WGWC-22	Total Recoverable	Water	6020B	794238
680-239334-12	WAN-WGWC-23	Total Recoverable	Water	6020B	794238
680-239334-13	WAN-WGWC-24	Total Recoverable	Water	6020B	794238
680-239334-14	WAN-PZ-26D	Total Recoverable	Water	6020B	794238
680-239334-15	WAN-AP1-FD-01	Total Recoverable	Water	6020B	794238
680-239334-16	WAN-AP1-FD-03	Total Recoverable	Water	6020B	794238
680-239334-17	WAN-AP1-FB-08	Total Recoverable	Water	6020B	794238

QC Association Summary

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

Job ID: 680-239334-1

Metals (Continued)

Analysis Batch: 794434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-18	WAN-AP1-FB-09	Total Recoverable	Water	6020B	794238
680-239334-19	WAN-AP1-EB-01	Total Recoverable	Water	6020B	794238
680-239334-20	WAN-AP1-EB-02	Total Recoverable	Water	6020B	794238
680-239334-21	WAN-AP1-EB-03	Total Recoverable	Water	6020B	794239
MB 680-794238/1-A	Method Blank	Total Recoverable	Water	6020B	794238
MB 680-794239/1-A	Method Blank	Total Recoverable	Water	6020B	794239
LCS 680-794238/2-A	Lab Control Sample	Total Recoverable	Water	6020B	794238
LCS 680-794239/2-A	Lab Control Sample	Total Recoverable	Water	6020B	794239
680-239334-1 MS	WAN-WGWC-9	Total Recoverable	Water	6020B	794238
680-239334-1 MSD	WAN-WGWC-9	Total Recoverable	Water	6020B	794238
680-239334-21 MS	WAN-AP1-EB-03	Total Recoverable	Water	6020B	794239
680-239334-21 MSD	WAN-AP1-EB-03	Total Recoverable	Water	6020B	794239

Analysis Batch: 794582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-21	WAN-AP1-EB-03	Total Recoverable	Water	6020B	794239
MB 680-794239/1-A	Method Blank	Total Recoverable	Water	6020B	794239
LCS 680-794239/2-A	Lab Control Sample	Total Recoverable	Water	6020B	794239
680-239334-21 MS	WAN-AP1-EB-03	Total Recoverable	Water	6020B	794239
680-239334-21 MSD	WAN-AP1-EB-03	Total Recoverable	Water	6020B	794239

Prep Batch: 794591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-1	WAN-WGWC-9	Total/NA	Water	7470A	
MB 680-794591/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-794591/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-239089-C-1-K MS	Matrix Spike	Total/NA	Water	7470A	
680-239089-C-1-L MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 794765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-2	WAN-WGWC-10	Total/NA	Water	7470A	
680-239334-3	WAN-WGWC-11	Total/NA	Water	7470A	
680-239334-4	WAN-WGWC-12	Total/NA	Water	7470A	
680-239334-5	WAN-WGWC-13	Total/NA	Water	7470A	
680-239334-6	WAN-WGWC-14A	Total/NA	Water	7470A	
680-239334-7	WAN-WGWC-15	Total/NA	Water	7470A	
680-239334-8	WAN-WGWC-17	Total/NA	Water	7470A	
680-239334-9	WAN-WGWC-19	Total/NA	Water	7470A	
680-239334-10	WAN-WGWC-21	Total/NA	Water	7470A	
680-239334-11	WAN-WGWC-22	Total/NA	Water	7470A	
680-239334-12	WAN-WGWC-23	Total/NA	Water	7470A	
680-239334-13	WAN-WGWC-24	Total/NA	Water	7470A	
680-239334-14	WAN-PZ-26D	Total/NA	Water	7470A	
680-239334-15	WAN-AP1-FD-01	Total/NA	Water	7470A	
680-239334-16	WAN-AP1-FD-03	Total/NA	Water	7470A	
680-239334-17	WAN-AP1-FB-08	Total/NA	Water	7470A	
680-239334-18	WAN-AP1-FB-09	Total/NA	Water	7470A	
680-239334-19	WAN-AP1-EB-01	Total/NA	Water	7470A	
680-239334-20	WAN-AP1-EB-02	Total/NA	Water	7470A	
MB 680-794765/1-A	Method Blank	Total/NA	Water	7470A	

Eurofins Savannah

QC Association Summary

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

Job ID: 680-239334-1

Metals (Continued)

Prep Batch: 794765 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-794765/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-239089-A-2-H MS	Matrix Spike	Dissolved	Water	7470A	
680-239089-A-2-I MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Analysis Batch: 795012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-1	WAN-WGWC-9	Total/NA	Water	7470A	794591
680-239334-2	WAN-WGWC-10	Total/NA	Water	7470A	794765
680-239334-3	WAN-WGWC-11	Total/NA	Water	7470A	794765
680-239334-4	WAN-WGWC-12	Total/NA	Water	7470A	794765
680-239334-5	WAN-WGWC-13	Total/NA	Water	7470A	794765
680-239334-6	WAN-WGWC-14A	Total/NA	Water	7470A	794765
680-239334-7	WAN-WGWC-15	Total/NA	Water	7470A	794765
680-239334-8	WAN-WGWC-17	Total/NA	Water	7470A	794765
680-239334-9	WAN-WGWC-19	Total/NA	Water	7470A	794765
680-239334-10	WAN-WGWC-21	Total/NA	Water	7470A	794765
680-239334-11	WAN-WGWC-22	Total/NA	Water	7470A	794765
680-239334-12	WAN-WGWC-23	Total/NA	Water	7470A	794765
680-239334-13	WAN-WGWC-24	Total/NA	Water	7470A	794765
680-239334-14	WAN-PZ-26D	Total/NA	Water	7470A	794765
680-239334-15	WAN-AP1-FD-01	Total/NA	Water	7470A	794765
680-239334-16	WAN-AP1-FD-03	Total/NA	Water	7470A	794765
680-239334-17	WAN-AP1-FB-08	Total/NA	Water	7470A	794765
680-239334-18	WAN-AP1-FB-09	Total/NA	Water	7470A	794765
680-239334-19	WAN-AP1-EB-01	Total/NA	Water	7470A	794765
680-239334-20	WAN-AP1-EB-02	Total/NA	Water	7470A	794765
MB 680-794591/1-A	Method Blank	Total/NA	Water	7470A	794591
MB 680-794765/1-A	Method Blank	Total/NA	Water	7470A	794765
LCS 680-794591/2-A	Lab Control Sample	Total/NA	Water	7470A	794591
LCS 680-794765/2-A	Lab Control Sample	Total/NA	Water	7470A	794765
680-239089-A-2-H MS	Matrix Spike	Dissolved	Water	7470A	794765
680-239089-A-2-I MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	794765
680-239089-C-1-K MS	Matrix Spike	Total/NA	Water	7470A	794591
680-239089-C-1-L MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	794591

Prep Batch: 795533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-21	WAN-AP1-EB-03	Total/NA	Water	7470A	
MB 680-795533/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-795533/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-239303-B-8-D MS	Matrix Spike	Total/NA	Water	7470A	
680-239303-B-8-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 795695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-21	WAN-AP1-EB-03	Total/NA	Water	7470A	795533
MB 680-795533/1-A	Method Blank	Total/NA	Water	7470A	795533
LCS 680-795533/2-A	Lab Control Sample	Total/NA	Water	7470A	795533
680-239303-B-8-D MS	Matrix Spike	Total/NA	Water	7470A	795533
680-239303-B-8-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	795533

QC Association Summary

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

Job ID: 680-239334-1

General Chemistry

Analysis Batch: 794541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-1	WAN-WGWC-9	Total/NA	Water	2540C-2011	
680-239334-2	WAN-WGWC-10	Total/NA	Water	2540C-2011	
680-239334-5	WAN-WGWC-13	Total/NA	Water	2540C-2011	
680-239334-7	WAN-WGWC-15	Total/NA	Water	2540C-2011	
680-239334-8	WAN-WGWC-17	Total/NA	Water	2540C-2011	
680-239334-10	WAN-WGWC-21	Total/NA	Water	2540C-2011	
680-239334-17	WAN-AP1-FB-08	Total/NA	Water	2540C-2011	
680-239334-19	WAN-AP1-EB-01	Total/NA	Water	2540C-2011	
MB 680-794541/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-794541/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-794541/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-239334-7 DU	WAN-WGWC-15	Total/NA	Water	2540C-2011	
680-239334-10 DU	WAN-WGWC-21	Total/NA	Water	2540C-2011	

Analysis Batch: 794944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-3	WAN-WGWC-11	Total/NA	Water	2540C-2011	
680-239334-4	WAN-WGWC-12	Total/NA	Water	2540C-2011	
680-239334-6	WAN-WGWC-14A	Total/NA	Water	2540C-2011	
680-239334-9	WAN-WGWC-19	Total/NA	Water	2540C-2011	
680-239334-11	WAN-WGWC-22	Total/NA	Water	2540C-2011	
680-239334-12	WAN-WGWC-23	Total/NA	Water	2540C-2011	
680-239334-13	WAN-WGWC-24	Total/NA	Water	2540C-2011	
680-239334-14	WAN-PZ-26D	Total/NA	Water	2540C-2011	
680-239334-15	WAN-AP1-FD-01	Total/NA	Water	2540C-2011	
680-239334-16	WAN-AP1-FD-03	Total/NA	Water	2540C-2011	
680-239334-18	WAN-AP1-FB-09	Total/NA	Water	2540C-2011	
680-239334-20	WAN-AP1-EB-02	Total/NA	Water	2540C-2011	
680-239334-21	WAN-AP1-EB-03	Total/NA	Water	2540C-2011	
MB 680-794944/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-794944/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-794944/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-239396-A-1 DU	Duplicate	Total/NA	Water	2540C-2011	
680-239397-A-1 DU	Duplicate	Total/NA	Water	2540C-2011	

Lab Chronicle

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

Job ID: 680-239334-1

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-239334-1

Date Collected: 08/16/23 09:45

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794492	08/22/23 23:50	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 15:05	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794591	08/22/23 16:16	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:00	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794541	08/22/23 13:51	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-239334-2

Date Collected: 08/17/23 12:05

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794492	08/23/23 00:28	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 15:17	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:09	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794541	08/22/23 13:51	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-11

Lab Sample ID: 680-239334-3

Date Collected: 08/16/23 10:00

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794492	08/23/23 00:41	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 15:21	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:14	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794944	08/24/23 11:56	PG	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 680-239334-1

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-239334-4

Date Collected: 08/16/23 11:48

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794492	08/23/23 00:53	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 15:25	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:15	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794944	08/24/23 11:56	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-13

Lab Sample ID: 680-239334-5

Date Collected: 08/16/23 15:25

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794492	08/23/23 01:06	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 15:29	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:17	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794541	08/22/23 13:51	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-14A

Lab Sample ID: 680-239334-6

Date Collected: 08/16/23 14:01

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794492	08/23/23 01:19	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 15:33	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:18	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794944	08/24/23 11:56	PG	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 680-239334-1

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-239334-7

Date Collected: 08/16/23 13:59

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794492	08/23/23 01:31	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 15:46	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:20	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	794541	08/22/23 13:51	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-239334-8

Date Collected: 08/16/23 15:15

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794492	08/23/23 01:44	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 15:50	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:21	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794541	08/22/23 13:51	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-19

Lab Sample ID: 680-239334-9

Date Collected: 08/16/23 15:35

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794492	08/23/23 01:57	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 15:54	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:23	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794944	08/24/23 11:56	PG	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 680-239334-1

Client Sample ID: WAN-WGWC-21

Lab Sample ID: 680-239334-10

Date Collected: 08/17/23 10:45

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794492	08/23/23 02:10	T1C	EET SAV
Instrument ID: CICK										
Total/NA	Analysis	300.0-1993 R2.1	DL	2	5 mL	5 mL	794720	08/23/23 12:50	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 15:58	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:25	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	794541	08/22/23 13:51	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-22

Lab Sample ID: 680-239334-11

Date Collected: 08/17/23 12:10

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794720	08/23/23 12:00	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 16:02	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:26	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	794944	08/24/23 11:56	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-239334-12

Date Collected: 08/17/23 11:10

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794720	08/23/23 13:02	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 16:06	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:28	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794944	08/24/23 11:56	PG	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 680-239334-1

Client Sample ID: WAN-WGWC-24

Lab Sample ID: 680-239334-13

Date Collected: 08/17/23 10:04

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794720	08/23/23 13:15	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 16:10	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:32	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	794944	08/24/23 11:56	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-PZ-26D

Lab Sample ID: 680-239334-14

Date Collected: 08/17/23 11:46

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794720	08/23/23 13:28	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 16:14	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:34	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	794944	08/24/23 11:56	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-FD-01

Lab Sample ID: 680-239334-15

Date Collected: 08/16/23 00:00

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794720	08/23/23 13:40	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 16:18	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:36	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794944	08/24/23 11:56	PG	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 680-239334-1

Client Sample ID: WAN-AP1-FD-03

Lab Sample ID: 680-239334-16

Date Collected: 08/17/23 00:00

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		2	5 mL	5 mL	794720	08/23/23 13:53	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 16:22	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:37	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794944	08/24/23 11:56	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-239334-17

Date Collected: 08/16/23 11:00

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794720	08/23/23 14:06	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 16:34	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:39	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794541	08/22/23 13:51	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-239334-18

Date Collected: 08/17/23 11:30

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794720	08/23/23 14:18	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 16:38	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:40	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794944	08/24/23 11:56	PG	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 680-239334-1

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-239334-19

Date Collected: 08/16/23 10:05

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794720	08/23/23 14:31	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 16:42	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:42	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794541	08/22/23 13:51	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-239334-20

Date Collected: 08/17/23 09:20

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794720	08/23/23 15:47	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794238	08/21/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 16:46	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	794765	08/23/23 12:53	DW	EET SAV
Total/NA	Analysis	7470A		1			795012	08/24/23 13:43	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794944	08/24/23 11:56	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-239334-21

Date Collected: 08/17/23 11:35

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	794721	08/23/23 23:35	T1C	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	794239	08/21/23 06:21	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 21:18	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	794239	08/21/23 06:21	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794582	08/22/23 12:21	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	795533	08/28/23 16:44	BCB	EET SAV
Total/NA	Analysis	7470A		1			795695	08/29/23 12:48	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	794944	08/24/23 11:56	PG	EET SAV
Instrument ID: NOEQUIP										

Eurofins Savannah

Lab Chronicle

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

Job ID: 680-239334-1

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Accreditation/Certification Summary

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

Job ID: 680-239334-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

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Method Summary

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

Job ID: 680-239334-1

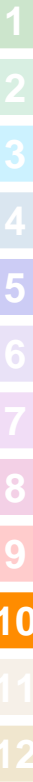
Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Eurofins TestAmerica, Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record



Environment Testing
America

Client Information		Sampler: ACC <i>T. Goble/A. Smith/Le/D. Johnson</i>		Lab PM: Fuller, David		Carrier Tracking No(s):		COC No:	
Client Contact: SCS Contacts		Phone: <i>770-594-5998</i>		E-Mail: <i>david.fuller@et.eurofinsus.com</i>				Page: <i>2 of 2</i>	
Company: GA Power		Address: 241 Ralph McGill Blvd SE		City: Atlanta		State, Zip: GA, 30308		Due Date Requested:	
Phone: 404-506-7116(Tel)		Lab Project #: 68027766		TAT Requested (days):		PO #:		Job #:	
Email: SCS Contacts / Geosyntec Contacts		Project Name: Plant Wansley Ash Pond		Project #:		SSOW#:		Preservation Codes:	
Site:		Sample Date (mm/dd/yy)		Sample Time (hhmm)		Sample Type (C=comp, G=grab)		Matrix (WG=ground water, WS=surface water, WQ=quality control)	
								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)	
								App IV Metals (EPA 60207/470): Sb,As,Ba,Bi,Cd,Cr,Cu,Pb,Li,Hg,Mo,Se,Ti	
								Radium 226 & 228 (SW-846 9315/9320)	
								Total Number of containers	
								Task Code: WAN-CCR-ASSMT-2023S2	
								Special Instructions/Note: Full APP III and APP IV	
Sample Identification									
								Preservation Code:	
WAN- <i>WGWC-23</i>		<i>08/17/23</i>		<i>1110</i>		G WG		N N ✓ ✓ ✓ ✓	
WAN- <i>WGWC-24</i>		<i>08/17/23</i>		<i>1004</i>		G WG		N N ✓ ✓ ✓ ✓	
WAN- <i>PZ-26D</i>		<i>08/17/23</i>		<i>1146</i>		G WG		N N ✓ ✓ ✓ ✓	
WAN- <i>API-FD-01</i>		<i>08/16/23</i>		<i>—</i>		G WG		N N ✓ ✓ ✓ ✓	
WAN- <i>API-FD-02 TG 03</i>		<i>08/17/23</i>		<i>—</i>		G WG		N N ✓ ✓ ✓ ✓	
WAN- <i>API-FB-08</i>		<i>08/16/23</i>		<i>1100</i>		G WQ		N N ✓ ✓ ✓ ✓	
WAN- <i>API-FB-09</i>		<i>08/17/23</i>		<i>1130</i>		G WQ		N N ✓ ✓ ✓ ✓	
WAN- <i>API-FB-01</i>		<i>08/16/23</i>		<i>1005</i>		G WQ		N N ✓ ✓ ✓ ✓	
WAN- <i>API-FB-02</i>		<i>08/17/23</i>		<i>0920</i>		G WQ		N N ✓ ✓ ✓ ✓	
WAN- <i>API-FB-03</i>		<i>08/17/23</i>		<i>1135</i>		G WQ		N N ✓ ✓ ✓ ✓	
WAN-						G		N N	
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>David Gallegos</i>		Date/Time: <i>8/18/23 / 0932</i>		Company:		Received by: <i>Michael Meskud</i>		Date/Time: <i>8-18-23 932</i>	
Relinquished by: <i>Michael Meskud</i>		Date/Time: <i>8-18-23 932</i>		Company:		Received by: <i>AK</i>		Date/Time: <i>8-19-23 900</i>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					
△ Yes △ No									

244 Analysis Requested
ATLANTA



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-239334-1

Login Number: 239334

List Number: 1

Creator: Sims, Robert D

List Source: Eurofins Savannah

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/3/2023 8:32:34 AM

JOB DESCRIPTION

Plant Wansley Ash Pond

JOB NUMBER

680-239334-2

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Generated
10/3/2023 8:32:34 AM

Definitions/Glossary

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

Job ID: 680-239334-2

Qualifiers

Rad

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control 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

Sample Summary

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

Job ID: 680-239334-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-239334-1	WAN-WGWC-9	Water	08/16/23 09:45	08/19/23 09:00
680-239334-2	WAN-WGWC-10	Water	08/17/23 12:05	08/19/23 09:00
680-239334-3	WAN-WGWC-11	Water	08/16/23 10:00	08/19/23 09:00
680-239334-4	WAN-WGWC-12	Water	08/16/23 11:48	08/19/23 09:00
680-239334-5	WAN-WGWC-13	Water	08/16/23 15:25	08/19/23 09:00
680-239334-6	WAN-WGWC-14A	Water	08/16/23 14:01	08/19/23 09:00
680-239334-7	WAN-WGWC-15	Water	08/16/23 13:59	08/19/23 09:00
680-239334-8	WAN-WGWC-17	Water	08/16/23 15:15	08/19/23 09:00
680-239334-9	WAN-WGWC-19	Water	08/16/23 15:35	08/19/23 09:00
680-239334-10	WAN-WGWC-21	Water	08/17/23 10:45	08/19/23 09:00
680-239334-11	WAN-WGWC-22	Water	08/17/23 12:10	08/19/23 09:00
680-239334-12	WAN-WGWC-23	Water	08/17/23 11:10	08/19/23 09:00
680-239334-13	WAN-WGWC-24	Water	08/17/23 10:04	08/19/23 09:00
680-239334-14	WAN-PZ-26D	Water	08/17/23 11:46	08/19/23 09:00
680-239334-15	WAN-AP1-FD-01	Water	08/16/23 00:00	08/19/23 09:00
680-239334-16	WAN-AP1-FD-03	Water	08/17/23 00:00	08/19/23 09:00
680-239334-17	WAN-AP1-FB-08	Water	08/16/23 11:00	08/19/23 09:00
680-239334-18	WAN-AP1-FB-09	Water	08/17/23 11:30	08/19/23 09:00
680-239334-19	WAN-AP1-EB-01	Water	08/16/23 10:05	08/19/23 09:00
680-239334-20	WAN-AP1-EB-02	Water	08/17/23 09:20	08/19/23 09:00
680-239334-21	WAN-AP1-EB-03	Water	08/17/23 11:35	08/19/23 09:00

Case Narrative

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

Job ID: 680-239334-2

Job ID: 680-239334-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-239334-2

Receipt

The samples were received on 8/19/2023 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 4 coolers at receipt time were 4.0°C, 4.2°C, 4.4°C and 5.3°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 Prep Batch 160-625148 Insufficient sample volume was available to perform a sample duplicate for the following samples: WAN-WGWC-9 (680-239334-1), WAN-WGWC-10 (680-239334-2), WAN-WGWC-11 (680-239334-3), WAN-WGWC-12 (680-239334-4), WAN-WGWC-13 (680-239334-5), WAN-WGWC-14A (680-239334-6), WAN-WGWC-15 (680-239334-7), WAN-WGWC-17 (680-239334-8) and WAN-WGWC-19 (680-239334-9). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315_Ra226: Radium-226 prep batch 160-625154: 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. WAN-WGWC-21 (680-239334-10), WAN-WGWC-22 (680-239334-11), WAN-WGWC-23 (680-239334-12), WAN-WGWC-24 (680-239334-13), WAN-PZ-26D (680-239334-14), WAN-AP1-FD-01 (680-239334-15), WAN-AP1-FD-03 (680-239334-16), WAN-AP1-FB-08 (680-239334-17), WAN-AP1-FB-09 (680-239334-18), WAN-AP1-EB-01 (680-239334-19), WAN-AP1-EB-02 (680-239334-20), WAN-AP1-EB-03 (680-239334-21), (LCS 160-625154/2-A), (MB 160-625154/1-A), (240-190433-O-3-A), (240-190433-N-3-C MS) and (240-190433-L-3-C MSD)

Method 9315_Ra226: Radium-226 batch 625148 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. WAN-WGWC-9 (680-239334-1), WAN-WGWC-10 (680-239334-2), WAN-WGWC-11 (680-239334-3), WAN-WGWC-12 (680-239334-4), WAN-WGWC-13 (680-239334-5), WAN-WGWC-14A (680-239334-6), WAN-WGWC-15 (680-239334-7), WAN-WGWC-17 (680-239334-8), WAN-WGWC-19 (680-239334-9), (LCS 160-625148/2-A), (LCSD 160-625148/3-A) and (MB 160-625148/1-A)

Method 9320_Ra228: Radium-228 Prep Batch 160-625149 Insufficient sample volume was available to perform a sample duplicate for the following samples: WAN-WGWC-9 (680-239334-1), WAN-WGWC-10 (680-239334-2), WAN-WGWC-11 (680-239334-3), WAN-WGWC-12 (680-239334-4), WAN-WGWC-13 (680-239334-5), WAN-WGWC-14A (680-239334-6), WAN-WGWC-15 (680-239334-7), WAN-WGWC-17 (680-239334-8) and WAN-WGWC-19 (680-239334-9). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 625155 The matrix spike (MS) recoveries were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (240-190433-N-3-B MS)

Method 9320_Ra228: Radium-228 batch 625155 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. WAN-WGWC-21 (680-239334-10), WAN-WGWC-22 (680-239334-11), WAN-WGWC-23 (680-239334-12), WAN-WGWC-24 (680-239334-13), WAN-PZ-26D (680-239334-14), WAN-AP1-FD-01 (680-239334-15), WAN-AP1-FD-03 (680-239334-16), WAN-AP1-FB-08 (680-239334-17), WAN-AP1-FB-09 (680-239334-18), WAN-AP1-EB-01 (680-239334-19), WAN-AP1-EB-02 (680-239334-20), WAN-AP1-EB-03 (680-239334-21), (LCS 160-625155/2-A), (MB 160-625155/1-A), (240-190433-O-3-B), (240-190433-N-3-B MS) and (240-190433-L-3-B MSD)

Method 9320_Ra228: Radium-228 batch 625149 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. WAN-WGWC-9 (680-239334-1), WAN-WGWC-10 (680-239334-2), WAN-WGWC-11 (680-239334-3), WAN-WGWC-12 (680-239334-4), WAN-WGWC-13 (680-239334-5), WAN-WGWC-14A (680-239334-6), WAN-WGWC-15 (680-239334-7), WAN-WGWC-17 (680-239334-8), WAN-WGWC-19 (680-239334-9), (LCS 160-625149/2-A), (LCSD 160-625149/3-A) and (MB 160-625149/1-A)

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

Case Narrative

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

Job ID: 680-239334-2

Job ID: 680-239334-2 (Continued)

Laboratory: Eurofins Savannah (Continued)

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

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Client Sample Results

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

Job ID: 680-239334-2

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-239334-1

Date Collected: 08/16/23 09:45

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0478	U	0.0830	0.0831	1.00	0.145	pCi/L	08/23/23 10:00	09/25/23 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.9		30 - 110					08/23/23 10:00	09/25/23 20:21	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.161	U	0.354	0.354	1.00	0.621	pCi/L	08/23/23 10:02	09/20/23 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.9		30 - 110					08/23/23 10:02	09/20/23 12:19	1
Y Carrier	82.6		30 - 110					08/23/23 10:02	09/20/23 12:19	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.209	U	0.364	0.364	2.00	0.621	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-239334-2

Date Collected: 08/17/23 12:05

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0662	U	0.0877	0.0879	1.00	0.147	pCi/L	08/23/23 10:00	09/25/23 20:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					08/23/23 10:00	09/25/23 20:22	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	-0.178	U	0.251	0.251	1.00	0.529	pCi/L	08/23/23 10:02	09/20/23 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					08/23/23 10:02	09/20/23 12:20	1
Y Carrier	83.4		30 - 110					08/23/23 10:02	09/20/23 12:20	1

Client Sample Results

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

Job ID: 680-239334-2

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-239334-2

Date Collected: 08/17/23 12:05

Matrix: Water

Date Received: 08/19/23 09:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.112	U	0.266	0.266	2.00	0.529	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-WGWC-11

Lab Sample ID: 680-239334-3

Date Collected: 08/16/23 10:00

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00265	U	0.0643	0.0643	1.00	0.133	pCi/L	08/23/23 10:00	09/25/23 20:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					08/23/23 10:00	09/25/23 20:22	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.299	U	0.461	0.462	1.00	0.781	pCi/L	08/23/23 10:02	09/20/23 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					08/23/23 10:02	09/20/23 12:20	1
Y Carrier	63.6		30 - 110					08/23/23 10:02	09/20/23 12:20	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.297	U	0.465	0.466	2.00	0.781	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-239334-4

Date Collected: 08/16/23 11:48

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0979	U	0.0776	0.0781	1.00	0.108	pCi/L	08/23/23 10:00	09/25/23 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		30 - 110					08/23/23 10:00	09/25/23 20:21	1

Client Sample Results

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

Job ID: 680-239334-2

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-239334-4

Date Collected: 08/16/23 11:48

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.352	U	0.349	0.350	1.00	0.560	pCi/L	08/23/23 10:02	09/20/23 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		30 - 110					08/23/23 10:02	09/20/23 12:20	1
Y Carrier	83.4		30 - 110					08/23/23 10:02	09/20/23 12:20	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.450	U	0.358	0.359	2.00	0.560	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-WGWC-13

Lab Sample ID: 680-239334-5

Date Collected: 08/16/23 15:25

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.209		0.0958	0.0976	1.00	0.0985	pCi/L	08/23/23 10:00	09/25/23 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					08/23/23 10:00	09/25/23 20:21	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.299	U	0.347	0.348	1.00	0.703	pCi/L	08/23/23 10:02	09/20/23 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					08/23/23 10:02	09/20/23 12:20	1
Y Carrier	82.2		30 - 110					08/23/23 10:02	09/20/23 12:20	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0900	U	0.360	0.361	2.00	0.703	pCi/L		09/28/23 12:15	1

Client Sample Results

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

Job ID: 680-239334-2

Client Sample ID: WAN-WGWC-14A

Lab Sample ID: 680-239334-6

Date Collected: 08/16/23 14:01

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.288		0.112	0.115	1.00	0.106	pCi/L	08/23/23 10:00	09/25/23 20:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		30 - 110					08/23/23 10:00	09/25/23 20:22	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0112	U	0.296	0.297	1.00	0.558	pCi/L	08/23/23 10:02	09/20/23 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		30 - 110					08/23/23 10:02	09/20/23 12:21	1
Y Carrier	84.1		30 - 110					08/23/23 10:02	09/20/23 12:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.277	U	0.316	0.318	2.00	0.558	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-239334-7

Date Collected: 08/16/23 13:59

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.171		0.100	0.101	1.00	0.130	pCi/L	08/23/23 10:00	09/25/23 20:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110					08/23/23 10:00	09/25/23 20:22	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.144	U	0.364	0.364	1.00	0.693	pCi/L	08/23/23 10:02	09/20/23 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110					08/23/23 10:02	09/20/23 12:21	1
Y Carrier	86.4		30 - 110					08/23/23 10:02	09/20/23 12:21	1

Client Sample Results

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

Job ID: 680-239334-2

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-239334-7

Date Collected: 08/16/23 13:59

Matrix: Water

Date Received: 08/19/23 09:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0271	U	0.377	0.378	2.00	0.693	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-239334-8

Date Collected: 08/16/23 15:15

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.137		0.0885	0.0894	1.00	0.115	pCi/L	08/23/23 10:00	09/25/23 20:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		30 - 110					08/23/23 10:00	09/25/23 20:22	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.396	U	0.368	0.369	1.00	0.586	pCi/L	08/23/23 10:02	09/20/23 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		30 - 110					08/23/23 10:02	09/20/23 12:21	1
Y Carrier	84.1		30 - 110					08/23/23 10:02	09/20/23 12:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.533	U	0.378	0.380	2.00	0.586	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-WGWC-19

Lab Sample ID: 680-239334-9

Date Collected: 08/16/23 15:35

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.101		0.0749	0.0754	1.00	0.100	pCi/L	08/23/23 10:00	09/25/23 20:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					08/23/23 10:00	09/25/23 20:22	1

Client Sample Results

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

Job ID: 680-239334-2

Client Sample ID: WAN-WGWC-19

Lab Sample ID: 680-239334-9

Date Collected: 08/16/23 15:35

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.268	U	0.328	0.329	1.00	0.543	pCi/L	08/23/23 10:02	09/20/23 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					08/23/23 10:02	09/20/23 12:21	1
Y Carrier	80.7		30 - 110					08/23/23 10:02	09/20/23 12:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.369	U	0.336	0.338	2.00	0.543	pCi/L		09/28/23 12:15	1

Client Sample ID: WAN-WGWC-21

Lab Sample ID: 680-239334-10

Date Collected: 08/17/23 10:45

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.450		0.179	0.183	1.00	0.211	pCi/L	08/23/23 10:08	09/18/23 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		30 - 110					08/23/23 10:08	09/18/23 09:51	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.99		0.604	0.631	1.00	0.669	pCi/L	08/23/23 10:12	09/14/23 11:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		30 - 110					08/23/23 10:12	09/14/23 11:43	1
Y Carrier	72.5		30 - 110					08/23/23 10:12	09/14/23 11:43	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.44		0.630	0.657	2.00	0.669	pCi/L		09/21/23 17:54	1

Client Sample Results

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

Job ID: 680-239334-2

Client Sample ID: WAN-WGWC-22

Lab Sample ID: 680-239334-11

Date Collected: 08/17/23 12:10

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.45		0.262	0.292	1.00	0.162	pCi/L	08/23/23 10:08	09/18/23 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.0		30 - 110					08/23/23 10:08	09/18/23 09:51	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.02		0.664	0.720	1.00	0.631	pCi/L	08/23/23 10:12	09/14/23 11:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.0		30 - 110					08/23/23 10:12	09/14/23 11:43	1
Y Carrier	77.0		30 - 110					08/23/23 10:12	09/14/23 11:43	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	4.47		0.714	0.777	2.00	0.631	pCi/L		09/21/23 17:54	1

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-239334-12

Date Collected: 08/17/23 11:10

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.261		0.134	0.136	1.00	0.150	pCi/L	08/23/23 10:08	09/18/23 09:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		30 - 110					08/23/23 10:08	09/18/23 09:52	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.65		0.536	0.557	1.00	0.635	pCi/L	08/23/23 10:12	09/14/23 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		30 - 110					08/23/23 10:12	09/14/23 11:44	1
Y Carrier	77.0		30 - 110					08/23/23 10:12	09/14/23 11:44	1

Client Sample Results

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

Job ID: 680-239334-2

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-239334-12

Date Collected: 08/17/23 11:10

Matrix: Water

Date Received: 08/19/23 09:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.91		0.552	0.573	2.00	0.635	pCi/L		09/21/23 17:54	1

Client Sample ID: WAN-WGWC-24

Lab Sample ID: 680-239334-13

Date Collected: 08/17/23 10:04

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.162		0.104	0.105	1.00	0.134	pCi/L	08/23/23 10:08	09/18/23 09:52	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	82.2		30 - 110					08/23/23 10:08	09/18/23 09:52	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.45		0.596	0.611	1.00	0.804	pCi/L	08/23/23 10:12	09/14/23 11:44	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	82.2		30 - 110					08/23/23 10:12	09/14/23 11:44	1
Y Carrier	75.9		30 - 110					08/23/23 10:12	09/14/23 11:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.62		0.605	0.620	2.00	0.804	pCi/L		09/21/23 17:54	1

Client Sample ID: WAN-PZ-26D

Lab Sample ID: 680-239334-14

Date Collected: 08/17/23 11:46

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.205		0.134	0.135	1.00	0.174	pCi/L	08/23/23 10:08	09/18/23 09:52	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	59.1		30 - 110					08/23/23 10:08	09/18/23 09:52	1

Client Sample Results

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

Job ID: 680-239334-2

Client Sample ID: WAN-PZ-26D

Lab Sample ID: 680-239334-14

Date Collected: 08/17/23 11:46

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.24		0.665	0.675	1.00	0.941	pCi/L	08/23/23 10:12	09/14/23 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	59.1		30 - 110					08/23/23 10:12	09/14/23 11:44	1
Y Carrier	75.1		30 - 110					08/23/23 10:12	09/14/23 11:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.44		0.678	0.688	2.00	0.941	pCi/L		09/21/23 17:54	1

Client Sample ID: WAN-AP1-FD-01

Lab Sample ID: 680-239334-15

Date Collected: 08/16/23 00:00

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0954	U	0.0901	0.0905	1.00	0.137	pCi/L	08/23/23 10:08	09/18/23 09:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					08/23/23 10:08	09/18/23 09:52	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.577		0.369	0.372	1.00	0.535	pCi/L	08/23/23 10:12	09/14/23 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					08/23/23 10:12	09/14/23 11:44	1
Y Carrier	80.7		30 - 110					08/23/23 10:12	09/14/23 11:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.673		0.380	0.383	2.00	0.535	pCi/L		09/21/23 17:54	1

Client Sample Results

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

Job ID: 680-239334-2

Client Sample ID: WAN-AP1-FD-03

Lab Sample ID: 680-239334-16

Date Collected: 08/17/23 00:00

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.214		0.115	0.117	1.00	0.142	pCi/L	08/23/23 10:08	09/18/23 09:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					08/23/23 10:08	09/18/23 09:52	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.575	U	0.408	0.411	1.00	0.617	pCi/L	08/23/23 10:12	09/14/23 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					08/23/23 10:12	09/14/23 11:44	1
Y Carrier	78.5		30 - 110					08/23/23 10:12	09/14/23 11:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.789		0.424	0.427	2.00	0.617	pCi/L		09/21/23 17:54	1

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-239334-17

Date Collected: 08/16/23 11:00

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0284	U	0.0659	0.0659	1.00	0.156	pCi/L	08/23/23 10:08	09/18/23 09:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.2		30 - 110					08/23/23 10:08	09/18/23 09:53	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.865		0.443	0.450	1.00	0.605	pCi/L	08/23/23 10:12	09/14/23 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.2		30 - 110					08/23/23 10:12	09/14/23 11:44	1
Y Carrier	76.6		30 - 110					08/23/23 10:12	09/14/23 11:44	1

Client Sample Results

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

Job ID: 680-239334-2

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-239334-17

Date Collected: 08/16/23 11:00

Matrix: Water

Date Received: 08/19/23 09:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.836		0.448	0.455	2.00	0.605	pCi/L		09/21/23 17:54	1

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-239334-18

Date Collected: 08/17/23 11:30

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0305	U	0.0608	0.0609	1.00	0.112	pCi/L	08/23/23 10:08	09/18/23 09:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					08/23/23 10:08	09/18/23 09:54	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.693		0.395	0.400	1.00	0.565	pCi/L	08/23/23 10:12	09/14/23 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					08/23/23 10:12	09/14/23 11:44	1
Y Carrier	77.8		30 - 110					08/23/23 10:12	09/14/23 11:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.723		0.400	0.405	2.00	0.565	pCi/L		09/21/23 17:54	1

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-239334-19

Date Collected: 08/16/23 10:05

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0631	U	0.0896	0.0897	1.00	0.152	pCi/L	08/23/23 10:08	09/18/23 09:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					08/23/23 10:08	09/18/23 09:54	1

Client Sample Results

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

Job ID: 680-239334-2

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-239334-19

Date Collected: 08/16/23 10:05

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.545	U	0.423	0.426	1.00	0.652	pCi/L	08/23/23 10:12	09/14/23 11:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					08/23/23 10:12	09/14/23 11:46	1
Y Carrier	76.6		30 - 110					08/23/23 10:12	09/14/23 11:46	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.609	U	0.432	0.435	2.00	0.652	pCi/L		09/21/23 17:54	1

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-239334-20

Date Collected: 08/17/23 09:20

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0599	U	0.0873	0.0875	1.00	0.149	pCi/L	08/23/23 10:08	09/18/23 09:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.9		30 - 110					08/23/23 10:08	09/18/23 09:54	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00299	U	0.366	0.366	1.00	0.692	pCi/L	08/23/23 10:12	09/14/23 11:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.9		30 - 110					08/23/23 10:12	09/14/23 11:46	1
Y Carrier	77.8		30 - 110					08/23/23 10:12	09/14/23 11:46	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0570	U	0.376	0.376	2.00	0.692	pCi/L		09/21/23 17:54	1

Client Sample Results

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

Job ID: 680-239334-2

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-239334-21

Date Collected: 08/17/23 11:35

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0804	U	0.0896	0.0899	1.00	0.144	pCi/L	08/23/23 10:08	09/18/23 09:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		30 - 110					08/23/23 10:08	09/18/23 09:58	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.373	U	0.372	0.373	1.00	0.596	pCi/L	08/23/23 10:12	09/14/23 11:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		30 - 110					08/23/23 10:12	09/14/23 11:46	1
Y Carrier	78.1		30 - 110					08/23/23 10:12	09/14/23 11:46	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.454	U	0.383	0.384	2.00	0.596	pCi/L		09/21/23 17:54	1

Tracer/Carrier Summary

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

Job ID: 680-239334-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
240-190433-L-3-C MSD	Matrix Spike Duplicate	86.0	
240-190433-N-3-C MS	Matrix Spike	83.0	
680-239334-1	WAN-WGWC-9	77.9	
680-239334-2	WAN-WGWC-10	96.5	
680-239334-3	WAN-WGWC-11	92.5	
680-239334-4	WAN-WGWC-12	89.2	
680-239334-5	WAN-WGWC-13	92.5	
680-239334-6	WAN-WGWC-14A	93.2	
680-239334-7	WAN-WGWC-15	91.5	
680-239334-8	WAN-WGWC-17	89.0	
680-239334-9	WAN-WGWC-19	92.7	
680-239334-10	WAN-WGWC-21	78.4	
680-239334-11	WAN-WGWC-22	81.0	
680-239334-12	WAN-WGWC-23	84.7	
680-239334-13	WAN-WGWC-24	82.2	
680-239334-14	WAN-PZ-26D	59.1	
680-239334-15	WAN-AP1-FD-01	86.7	
680-239334-16	WAN-AP1-FD-03	88.0	
680-239334-17	WAN-AP1-FB-08	82.2	
680-239334-18	WAN-AP1-FB-09	92.7	
680-239334-19	WAN-AP1-EB-01	86.7	
680-239334-20	WAN-AP1-EB-02	75.9	
680-239334-21	WAN-AP1-EB-03	87.2	
LCS 160-625148/2-A	Lab Control Sample	94.0	
LCS 160-625154/2-A	Lab Control Sample	77.9	
LCS 160-625148/3-A	Lab Control Sample Dup	90.2	
MB 160-625148/1-A	Method Blank	84.0	
MB 160-625154/1-A	Method Blank	84.2	

Tracer/Carrier Legend
 Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
240-190433-L-3-B MSD	Matrix Spike Duplicate	86.0	77.0
240-190433-N-3-B MS	Matrix Spike	83.0	74.4
680-239334-1	WAN-WGWC-9	77.9	82.6
680-239334-2	WAN-WGWC-10	96.5	83.4
680-239334-3	WAN-WGWC-11	92.5	63.6
680-239334-4	WAN-WGWC-12	89.2	83.4
680-239334-5	WAN-WGWC-13	92.5	82.2
680-239334-6	WAN-WGWC-14A	93.2	84.1
680-239334-7	WAN-WGWC-15	91.5	86.4
680-239334-8	WAN-WGWC-17	89.0	84.1
680-239334-9	WAN-WGWC-19	92.7	80.7
680-239334-10	WAN-WGWC-21	78.4	72.5

Tracer/Carrier Summary

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

Job ID: 680-239334-2

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

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
680-239334-11	WAN-WGWC-22	81.0	77.0
680-239334-12	WAN-WGWC-23	84.7	77.0
680-239334-13	WAN-WGWC-24	82.2	75.9
680-239334-14	WAN-PZ-26D	59.1	75.1
680-239334-15	WAN-AP1-FD-01	86.7	80.7
680-239334-16	WAN-AP1-FD-03	88.0	78.5
680-239334-17	WAN-AP1-FB-08	82.2	76.6
680-239334-18	WAN-AP1-FB-09	92.7	77.8
680-239334-19	WAN-AP1-EB-01	86.7	76.6
680-239334-20	WAN-AP1-EB-02	75.9	77.8
680-239334-21	WAN-AP1-EB-03	87.2	78.1
LCS 160-625149/2-A	Lab Control Sample	94.0	58.7
LCS 160-625155/2-A	Lab Control Sample	77.9	76.3
LCSD 160-625149/3-A	Lab Control Sample Dup	90.2	67.3
MB 160-625149/1-A	Method Blank	84.0	76.3
MB 160-625155/1-A	Method Blank	84.2	77.4

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier



QC Sample Results

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

Job ID: 680-239334-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-625148/1-A
Matrix: Water
Analysis Batch: 629181

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625148

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03222	U	0.122	0.122	1.00	0.232	pCi/L	08/23/23 10:00	09/21/23 21:15	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	30 - 110							
Ba Carrier	84.0				08/23/23 10:00	09/21/23 21:15	1			

Lab Sample ID: LCS 160-625148/2-A
Matrix: Water
Analysis Batch: 629181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625148

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.10		1.28	1.00	0.210	pCi/L	98	75 - 125
Carrier	LCS	LCS	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	30 - 110						
Ba Carrier	94.0				08/23/23 10:00	09/21/23 21:15	1		

Lab Sample ID: LCSD 160-625148/3-A
Matrix: Water
Analysis Batch: 629181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 625148

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	10.33		1.23	1.00	0.229	pCi/L	91	75 - 125	0.31	1
Carrier	LCSD	LCSD	Limits		Prepared	Analyzed	Dil Fac				
Ba Carrier	%Yield	Qualifier	30 - 110								
Ba Carrier	90.2				08/23/23 10:00	09/18/23 09:50	1				

Lab Sample ID: MB 160-625154/1-A
Matrix: Water
Analysis Batch: 628632

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625154

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02857	U	0.0761	0.0761	1.00	0.143	pCi/L	08/23/23 10:08	09/18/23 09:50	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	30 - 110							
Ba Carrier	84.2				08/23/23 10:08	09/18/23 09:50	1			

Lab Sample ID: LCS 160-625154/2-A
Matrix: Water
Analysis Batch: 628632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625154

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	12.80		1.38	1.00	0.152	pCi/L	113	75 - 125

QC Sample Results

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

Job ID: 680-239334-2

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

Lab Sample ID: LCS 160-625154/2-A
Matrix: Water
Analysis Batch: 628632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625154

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	77.9		30 - 110

Lab Sample ID: 240-190433-L-3-C MSD
Matrix: Water
Analysis Batch: 628634

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 625154

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER	Limit
											Limits	RER		
Radium-226	0.111	U	11.4	11.68		1.27	1.00	0.144	pCi/L	102	60 - 140	0.04	1	

	MSD	MSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	86.0		30 - 110

Lab Sample ID: 240-190433-N-3-C MS
Matrix: Water
Analysis Batch: 628634

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 625154

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER	Limit
											Limits	RER		
Radium-226	0.111	U	11.4	11.78		1.28	1.00	0.134	pCi/L	103	60 - 140			

	MS	MS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	83.0		30 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-625149/1-A
Matrix: Water
Analysis Batch: 628850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625149

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
Ba Carrier	84.0		30 - 110	08/23/23 10:02	09/20/23 12:09	1
Y Carrier	76.3		30 - 110	08/23/23 10:02	09/20/23 12:09	1

Lab Sample ID: LCS 160-625149/2-A
Matrix: Water
Analysis Batch: 628850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625149

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec	
									Limits	RER
Radium-228	7.86	9.756		1.46	1.00	0.669	pCi/L	124	75 - 125	

QC Sample Results

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

Job ID: 680-239334-2

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

Lab Sample ID: LCS 160-625149/2-A
Matrix: Water
Analysis Batch: 628850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625149

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	94.0		30 - 110
Y Carrier	58.7		30 - 110

Lab Sample ID: LCSD 160-625149/3-A
Matrix: Water
Analysis Batch: 628850

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 625149

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

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	90.2		30 - 110
Y Carrier	67.3		30 - 110

Lab Sample ID: MB 160-625155/1-A
Matrix: Water
Analysis Batch: 628152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625155

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	77.4		30 - 110	08/23/23 10:12	09/14/23 11:43	1

Lab Sample ID: LCS 160-625155/2-A
Matrix: Water
Analysis Batch: 628152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625155

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

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	77.9		30 - 110
Y Carrier	76.3		30 - 110

Lab Sample ID: 240-190433-L-3-B MSD
Matrix: Water
Analysis Batch: 628146

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 625155

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

QC Sample Results

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

Job ID: 680-239334-2

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

Lab Sample ID: 240-190433-L-3-B MSD

Matrix: Water

Analysis Batch: 628146

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 625155

Carrier	MSD		Limits
	%Yield	Qualifier	
Ba Carrier	86.0		30 - 110
Y Carrier	77.0		30 - 110

Lab Sample ID: 240-190433-N-3-B MS

Matrix: Water

Analysis Batch: 628146

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 625155

Analyte	Sample Result	Sample Qual	Spike Added	MS		Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
				Result	Qual						
Radium-228	0.657		7.90	11.93	F1	1.64	1.00	0.659	pCi/L	143	60 - 140

Carrier	MS		Limits
	%Yield	Qualifier	
Ba Carrier	83.0		30 - 110
Y Carrier	74.4		30 - 110

QC Association Summary

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

Job ID: 680-239334-2

Rad

Prep Batch: 625148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-1	WAN-WGWC-9	Total/NA	Water	PrecSep-21	
680-239334-2	WAN-WGWC-10	Total/NA	Water	PrecSep-21	
680-239334-3	WAN-WGWC-11	Total/NA	Water	PrecSep-21	
680-239334-4	WAN-WGWC-12	Total/NA	Water	PrecSep-21	
680-239334-5	WAN-WGWC-13	Total/NA	Water	PrecSep-21	
680-239334-6	WAN-WGWC-14A	Total/NA	Water	PrecSep-21	
680-239334-7	WAN-WGWC-15	Total/NA	Water	PrecSep-21	
680-239334-8	WAN-WGWC-17	Total/NA	Water	PrecSep-21	
680-239334-9	WAN-WGWC-19	Total/NA	Water	PrecSep-21	
MB 160-625148/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-625148/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-625148/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 625149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-1	WAN-WGWC-9	Total/NA	Water	PrecSep_0	
680-239334-2	WAN-WGWC-10	Total/NA	Water	PrecSep_0	
680-239334-3	WAN-WGWC-11	Total/NA	Water	PrecSep_0	
680-239334-4	WAN-WGWC-12	Total/NA	Water	PrecSep_0	
680-239334-5	WAN-WGWC-13	Total/NA	Water	PrecSep_0	
680-239334-6	WAN-WGWC-14A	Total/NA	Water	PrecSep_0	
680-239334-7	WAN-WGWC-15	Total/NA	Water	PrecSep_0	
680-239334-8	WAN-WGWC-17	Total/NA	Water	PrecSep_0	
680-239334-9	WAN-WGWC-19	Total/NA	Water	PrecSep_0	
MB 160-625149/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-625149/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-625149/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 625154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-10	WAN-WGWC-21	Total/NA	Water	PrecSep-21	
680-239334-11	WAN-WGWC-22	Total/NA	Water	PrecSep-21	
680-239334-12	WAN-WGWC-23	Total/NA	Water	PrecSep-21	
680-239334-13	WAN-WGWC-24	Total/NA	Water	PrecSep-21	
680-239334-14	WAN-PZ-26D	Total/NA	Water	PrecSep-21	
680-239334-15	WAN-AP1-FD-01	Total/NA	Water	PrecSep-21	
680-239334-16	WAN-AP1-FD-03	Total/NA	Water	PrecSep-21	
680-239334-17	WAN-AP1-FB-08	Total/NA	Water	PrecSep-21	
680-239334-18	WAN-AP1-FB-09	Total/NA	Water	PrecSep-21	
680-239334-19	WAN-AP1-EB-01	Total/NA	Water	PrecSep-21	
680-239334-20	WAN-AP1-EB-02	Total/NA	Water	PrecSep-21	
680-239334-21	WAN-AP1-EB-03	Total/NA	Water	PrecSep-21	
MB 160-625154/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-625154/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-190433-L-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	
240-190433-N-3-C MS	Matrix Spike	Total/NA	Water	PrecSep-21	

Prep Batch: 625155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-10	WAN-WGWC-21	Total/NA	Water	PrecSep_0	
680-239334-11	WAN-WGWC-22	Total/NA	Water	PrecSep_0	

QC Association Summary

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

Job ID: 680-239334-2

Rad (Continued)

Prep Batch: 625155 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239334-12	WAN-WGWC-23	Total/NA	Water	PrecSep_0	
680-239334-13	WAN-WGWC-24	Total/NA	Water	PrecSep_0	
680-239334-14	WAN-PZ-26D	Total/NA	Water	PrecSep_0	
680-239334-15	WAN-AP1-FD-01	Total/NA	Water	PrecSep_0	
680-239334-16	WAN-AP1-FD-03	Total/NA	Water	PrecSep_0	
680-239334-17	WAN-AP1-FB-08	Total/NA	Water	PrecSep_0	
680-239334-18	WAN-AP1-FB-09	Total/NA	Water	PrecSep_0	
680-239334-19	WAN-AP1-EB-01	Total/NA	Water	PrecSep_0	
680-239334-20	WAN-AP1-EB-02	Total/NA	Water	PrecSep_0	
680-239334-21	WAN-AP1-EB-03	Total/NA	Water	PrecSep_0	
MB 160-625155/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-625155/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-190433-L-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
240-190433-N-3-B MS	Matrix Spike	Total/NA	Water	PrecSep_0	

- 1
- 2
- 3
- 4
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- 11
- 12
- 13

Lab Chronicle

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

Job ID: 680-239334-2

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-239334-1

Date Collected: 08/16/23 09:45

Matrix: Water

Date Received: 08/19/23 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			998.56 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629493	09/25/23 20:21	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			998.56 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:19	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-239334-2

Date Collected: 08/17/23 12:05

Matrix: Water

Date Received: 08/19/23 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			998.76 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629493	09/25/23 20:22	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			998.76 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:20	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-11

Lab Sample ID: 680-239334-3

Date Collected: 08/16/23 10:00

Matrix: Water

Date Received: 08/19/23 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			993.44 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629493	09/25/23 20:22	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			993.44 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:20	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-239334-4

Date Collected: 08/16/23 11:48

Matrix: Water

Date Received: 08/19/23 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			996.16 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629490	09/25/23 20:21	SCB	EET SL
Instrument ID: GFPCRED										

Lab Chronicle

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

Job ID: 680-239334-2

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-239334-4

Date Collected: 08/16/23 11:48

Matrix: Water

Date Received: 08/19/23 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			996.16 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:20	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-13

Lab Sample ID: 680-239334-5

Date Collected: 08/16/23 15:25

Matrix: Water

Date Received: 08/19/23 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			1002.01 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629490	09/25/23 20:21	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1002.01 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:20	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-14A

Lab Sample ID: 680-239334-6

Date Collected: 08/16/23 14:01

Matrix: Water

Date Received: 08/19/23 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			993.07 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629490	09/25/23 20:22	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			993.07 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:21	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-239334-7

Date Collected: 08/16/23 13:59

Matrix: Water

Date Received: 08/19/23 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			993.68 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629490	09/25/23 20:22	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			993.68 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628853	09/20/23 12:21	FLC	EET SL
Instrument ID: GFPCBLUE										

Lab Chronicle

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

Job ID: 680-239334-2

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-239334-7

Date Collected: 08/16/23 13:59

Matrix: Water

Date Received: 08/19/23 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			629969	09/28/23 12:15	SCB	EET SL

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-239334-8

Date Collected: 08/16/23 15:15

Matrix: Water

Date Received: 08/19/23 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			1001.08 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629490	09/25/23 20:22	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1001.08 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628852	09/20/23 12:21	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-19

Lab Sample ID: 680-239334-9

Date Collected: 08/16/23 15:35

Matrix: Water

Date Received: 08/19/23 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			995.69 mL	1.0 g	625148	08/23/23 10:00	KAC	EET SL
Total/NA	Analysis	9315		1			629490	09/25/23 20:22	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			995.69 mL	1.0 g	625149	08/23/23 10:02	KAC	EET SL
Total/NA	Analysis	9320		1			628852	09/20/23 12:21	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			629969	09/28/23 12:15	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-21

Lab Sample ID: 680-239334-10

Date Collected: 08/17/23 10:45

Matrix: Water

Date Received: 08/19/23 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			993.33 mL	1.0 g	625154	08/23/23 10:08	KAC	EET SL
Total/NA	Analysis	9315		1			628632	09/18/23 09:51	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			993.33 mL	1.0 g	625155	08/23/23 10:12	KAC	EET SL
Total/NA	Analysis	9320		1			628152	09/14/23 11:43	SCB	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			629191	09/21/23 17:54	EMH	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 680-239334-2

Client Sample ID: WAN-WGWC-22

Lab Sample ID: 680-239334-11

Date Collected: 08/17/23 12:10

Matrix: Water

Date Received: 08/19/23 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			1007.56 mL	1.0 g	625154	08/23/23 10:08	KAC	EET SL
Total/NA	Analysis	9315		1			628632	09/18/23 09:51	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1007.56 mL	1.0 g	625155	08/23/23 10:12	KAC	EET SL
Total/NA	Analysis	9320		1			628152	09/14/23 11:43	SCB	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			629191	09/21/23 17:54	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-239334-12

Date Collected: 08/17/23 11:10

Matrix: Water

Date Received: 08/19/23 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			993.44 mL	1.0 g	625154	08/23/23 10:08	KAC	EET SL
Total/NA	Analysis	9315		1			628632	09/18/23 09:52	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			993.44 mL	1.0 g	625155	08/23/23 10:12	KAC	EET SL
Total/NA	Analysis	9320		1			628152	09/14/23 11:44	SCB	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			629191	09/21/23 17:54	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-WGWC-24

Lab Sample ID: 680-239334-13

Date Collected: 08/17/23 10:04

Matrix: Water

Date Received: 08/19/23 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			991.06 mL	1.0 g	625154	08/23/23 10:08	KAC	EET SL
Total/NA	Analysis	9315		1			628632	09/18/23 09:52	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			991.06 mL	1.0 g	625155	08/23/23 10:12	KAC	EET SL
Total/NA	Analysis	9320		1			628152	09/14/23 11:44	SCB	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			629191	09/21/23 17:54	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-PZ-26D

Lab Sample ID: 680-239334-14

Date Collected: 08/17/23 11:46

Matrix: Water

Date Received: 08/19/23 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			993.20 mL	1.0 g	625154	08/23/23 10:08	KAC	EET SL
Total/NA	Analysis	9315		1			628632	09/18/23 09:52	SCB	EET SL
Instrument ID: GFPCRED										

Lab Chronicle

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

Job ID: 680-239334-2

Client Sample ID: WAN-PZ-26D

Lab Sample ID: 680-239334-14

Date Collected: 08/17/23 11:46

Matrix: Water

Date Received: 08/19/23 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			993.20 mL	1.0 g	625155	08/23/23 10:12	KAC	EET SL
Total/NA	Analysis	9320		1			628152	09/14/23 11:44	SCB	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			629191	09/21/23 17:54	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-FD-01

Lab Sample ID: 680-239334-15

Date Collected: 08/16/23 00:00

Matrix: Water

Date Received: 08/19/23 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			994.13 mL	1.0 g	625154	08/23/23 10:08	KAC	EET SL
Total/NA	Analysis	9315		1			628632	09/18/23 09:52	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			994.13 mL	1.0 g	625155	08/23/23 10:12	KAC	EET SL
Total/NA	Analysis	9320		1			628152	09/14/23 11:44	SCB	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			629191	09/21/23 17:54	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-FD-03

Lab Sample ID: 680-239334-16

Date Collected: 08/17/23 00:00

Matrix: Water

Date Received: 08/19/23 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			1001.97 mL	1.0 g	625154	08/23/23 10:08	KAC	EET SL
Total/NA	Analysis	9315		1			628632	09/18/23 09:52	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1001.97 mL	1.0 g	625155	08/23/23 10:12	KAC	EET SL
Total/NA	Analysis	9320		1			628152	09/14/23 11:44	SCB	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			629191	09/21/23 17:54	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-239334-17

Date Collected: 08/16/23 11:00

Matrix: Water

Date Received: 08/19/23 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			993.22 mL	1.0 g	625154	08/23/23 10:08	KAC	EET SL
Total/NA	Analysis	9315		1			628632	09/18/23 09:53	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			993.22 mL	1.0 g	625155	08/23/23 10:12	KAC	EET SL
Total/NA	Analysis	9320		1			628152	09/14/23 11:44	SCB	EET SL
Instrument ID: GFPCORANGE										

Lab Chronicle

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

Job ID: 680-239334-2

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-239334-17

Date Collected: 08/16/23 11:00

Matrix: Water

Date Received: 08/19/23 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			629191	09/21/23 17:54	EMH	EET SL

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-239334-18

Date Collected: 08/17/23 11:30

Matrix: Water

Date Received: 08/19/23 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			994.18 mL	1.0 g	625154	08/23/23 10:08	KAC	EET SL
Total/NA	Analysis	9315		1			628632	09/18/23 09:54	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			994.18 mL	1.0 g	625155	08/23/23 10:12	KAC	EET SL
Total/NA	Analysis	9320		1			628152	09/14/23 11:44	SCB	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			629191	09/21/23 17:54	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-239334-19

Date Collected: 08/16/23 10:05

Matrix: Water

Date Received: 08/19/23 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			1000.24 mL	1.0 g	625154	08/23/23 10:08	KAC	EET SL
Total/NA	Analysis	9315		1			628632	09/18/23 09:54	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.24 mL	1.0 g	625155	08/23/23 10:12	KAC	EET SL
Total/NA	Analysis	9320		1			628146	09/14/23 11:46	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			629191	09/21/23 17:54	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-239334-20

Date Collected: 08/17/23 09:20

Matrix: Water

Date Received: 08/19/23 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			992.92 mL	1.0 g	625154	08/23/23 10:08	KAC	EET SL
Total/NA	Analysis	9315		1			628632	09/18/23 09:54	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			992.92 mL	1.0 g	625155	08/23/23 10:12	KAC	EET SL
Total/NA	Analysis	9320		1			628146	09/14/23 11:46	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			629191	09/21/23 17:54	EMH	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 680-239334-2

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-239334-21

Date Collected: 08/17/23 11:35

Matrix: Water

Date Received: 08/19/23 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			991.42 mL	1.0 g	625154	08/23/23 10:08	KAC	EET SL
Total/NA	Analysis	9315		1			628634	09/18/23 09:58	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			991.42 mL	1.0 g	625155	08/23/23 10:12	KAC	EET SL
Total/NA	Analysis	9320		1			628146	09/14/23 11:46	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			629191	09/21/23 17:54	EMH	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

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



Accreditation/Certification Summary

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

Job ID: 680-239334-2

Laboratory: Eurofins St. Louis

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87689	06-30-24

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Method Summary

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

Job ID: 680-239334-2

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

Protocol References:

None = None

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

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

Laboratory References:

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



Chain of Custody Record

Client Information					Sampler: ACC T. Goble / A. Schmitt / K. D. Johnson		Lab PM: Fuller, David		Carrier Tracking No(s):		COC No:					
Client Contact: SCS Contacts					Phone: 770-594-5998		444-ATLANTA		david.fuller@et.eurofinsus.com		Page: 1 of 2					
Company: GA Power					Analysis Requested							Job #:				
Address: 241 Ralph McGill Blvd SE												Due Date Requested:		Preservation Codes:		
City: Atlanta					TAT Requested (days):		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) App IV Metals (EPA 60207470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl Radium 226 & 228 (SW-846 9319/9320)		Total Number of containers		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)					
State, Zip: GA, 30308					Lab Project #: 68027766						Other:		Task Code: WAN-CCR-ASSMT-2023S2			
Phone: 404-506-7116(Tel)					PO #:						Special Instructions/Note: Full APP III and APP IV					
Email: SCS Contacts / Geosyntec Contacts					Project #:											
Project Name: Plant Wansley Ash Pond					SSOW#:											
Site:																
Sample Identification					Sample Date (mm/dd/yy)						Sample Time (hhmm)		Sample Type (C=comp, G=grab)		Matrix (WG=ground water, WS=surface water, WQ=quality control)	
					Preservation Code:											
WAN- WGWC-9					08/16/23						0945		G WG		N N ✓ ✓ ✓ ✓	
WAN- WGWC-10					08/17/23						1205		G WG		N N ✓ ✓ ✓ ✓	
WAN- WGWC-11					08/16/23		1000		G WG		N N ✓ ✓ ✓ ✓					
WAN- WGWC-12					08/16/23		1148		G WG		N N ✓ ✓ ✓ ✓					
WAN- WGWC-13					08/16/23		1525		G WG		N N ✓ ✓ ✓ ✓					
WAN- WGWC-14A					08/16/23		1401		G WG		N N ✓ ✓ ✓ ✓					
WAN- WGWC-15					08/16/23		1359		G WG		N N ✓ ✓ ✓ ✓					
WAN- WGWC-17					08/16/23		1515		G WG		N N ✓ ✓ ✓ ✓					
WAN- WGWC-19					08/16/23		1535		G WG		N N ✓ ✓ ✓ ✓					
WAN- WGWC-21					08/17/23		1045		G WG		N N ✓ ✓ ✓ ✓					
WAN- WGWC-22					08/17/23		1210		G WG		N N ✓ ✓ ✓ ✓					
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:											
Empty Kit Relinquished by:					Date:		Time:		Method of Shipment:							
Relinquished by: <i>David Fuller</i> ACC					Date/Time: 8/18/23 0932		Company:		Received by: <i>Michael Macko</i>		Date/Time: 8-18-23 932		Company:			
Relinquished by: <i>Michael Macko</i>					Date/Time: 8-18-23 932		Company:		Received by: <i>DM</i>		Date/Time: 8-19-23 900		Company: <i>TM</i>			
Relinquished by:					Date/Time:		Company:		Received by:		Date/Time:		Company:			
Custody Seals Intact: △ Yes △ No		Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: 3.9/4.0 5.2/5.3 4.3/4.4 4.1/4.2											



Chain of Custody Record

Client Information		Sampler: ACC <i>T. Goble/A. Smith/Le/D. Johnson</i>		Lab PM: Fuller, David		Carrier Tracking No(s):		COC No:		
Client Contact: SCS Contacts		Phone: <i>770-594-5998</i>		E-Mail: david.fuller@et.eurofinsus.com				Page: <i>2 of 2</i>		
Company: GA Power		Address: 241 Ralph McGill Blvd SE		City: Atlanta		State, Zip: GA, 30308		Job #:		
Phone: 404-506-7116(Tel)		Lab Project #: 68027766		PO #:		Project Name: Plant Wansley Ash Pond		Project #:		
Email:		SSOW#:		Due Date Requested:		TAT Requested (days):		Preservation Codes:		
SCS Contacts / Geosyntec Contacts		Sample Date (mm/dd/yy)		Sample Time (hhmm)		Sample Type (C=comp, G=grab)		Matrix (WG=ground water, WS=surface water, WQ=quality control)		
Project Name: Plant Wansley Ash Pond		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		App III Metals: B, Ca		App IV Metals (EPA 60207/470): Sb,As,Ba,Bi,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Ti		
Site:		Preservation Code:		Total Number of containers		Task Code: WAN-CCR-ASSMT-2023S2		Special Instructions/Note: Full APP III and APP IV		
Sample Identification		WAN- <i>WGWC-23</i>		<i>08/17/23 1110</i>		G WG		N N ✓ ✓ ✓ ✓		
		WAN- <i>WGWC-24</i>		<i>08/17/23 1004</i>		G WG		N N ✓ ✓ ✓ ✓		
		WAN- <i>PZ-26D</i>		<i>08/17/23 1146</i>		G WG		N N ✓ ✓ ✓ ✓		
		WAN- <i>API-FD-01</i>		<i>08/16/23 —</i>		G WG		N N ✓ ✓ ✓ ✓		
		WAN- <i>API-FD-02 TG 03</i>		<i>08/17/23 —</i>		G WG		N N ✓ ✓ ✓ ✓		
		WAN- <i>API-FB-08</i>		<i>08/16/23 1100</i>		G WQ		N N ✓ ✓ ✓ ✓		
		WAN- <i>API-FB-09</i>		<i>08/17/23 1130</i>		G WQ		N N ✓ ✓ ✓ ✓		
		WAN- <i>API-FB-01</i>		<i>08/16/23 1005</i>		G WQ		N N ✓ ✓ ✓ ✓		
		WAN- <i>API-FB-02</i>		<i>08/17/23 0920</i>		G WQ		N N ✓ ✓ ✓ ✓		
		WAN- <i>API-FB-03</i>		<i>08/17/23 1135</i>		G WQ		N N ✓ ✓ ✓ ✓		
		WAN-				G		N N		
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:				
Relinquished by: <i>David Gallegos</i>		Date/Time: <i>8/18/23 0932</i>		Company:		Received by: <i>Michael Meskud</i>		Date/Time: <i>8-18-23 932</i>		Company:
Relinquished by: <i>Michael Meskud</i>		Date/Time: <i>8-18-23 932</i>		Company:		Received by: <i>AK</i>		Date/Time: <i>8-19-23 900</i>		Company: <i>M</i>
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:
Custody Seals Intact: △ Yes △ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:						

244 Analysis Requested
ATLANTA

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-239334-2

Login Number: 239334

List Number: 1

Creator: Sims, Robert D

List Source: Eurofins Savannah

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-239334-2

Login Number: 239334

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 08/22/23 02:25 PM

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



 **ANALYTICAL REPORT****PREPARED FOR**

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

Generated 10/10/2023 4:30:20 PM

JOB DESCRIPTION

Plant Wansley Ash Pond

JOB NUMBER

680-240936-1

Eurofins Savannah

Job Notes

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Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 680-240936-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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

Sample Summary

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

Job ID: 680-240936-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-240936-1	WAN-WGWC-28D	Water	09/26/23 17:53	09/29/23 08:00

1

2

3

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12

Case Narrative

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

Job ID: 680-240936-1

Job ID: 680-240936-1

Laboratory: Eurofins Savannah

Narrative

**Job Narrative
680-240936-1**

Receipt

The sample was received on 9/29/2023 8:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

HPLC/IC

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

Metals

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

General Chemistry

Method 2540C: Constant weight was not achieved after 3 drying cycles for the following sample: WAN-WGWC-28D (680-240936-1).

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



Client Sample Results

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

Job ID: 680-240936-1

Client Sample ID: WAN-WGWC-28D

Lab Sample ID: 680-240936-1

Date Collected: 09/26/23 17:53

Matrix: Water

Date Received: 09/29/23 08:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.6		0.10	0.040	mg/L			10/05/23 00:16	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	540		10	2.0	mg/L			10/05/23 16:06	10
Sulfate	380		10	4.0	mg/L			10/05/23 16:06	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00057	J	0.0020	0.00034	mg/L		09/29/23 12:14	10/02/23 13:49	1
Arsenic	0.0013		0.0010	0.00086	mg/L		09/29/23 12:14	10/02/23 13:49	1
Barium	0.016		0.010	0.00089	mg/L		09/29/23 12:14	10/02/23 13:49	1
Beryllium	0.00073	J	0.0025	0.00020	mg/L		09/29/23 12:14	10/02/23 13:49	1
Boron	4.4		0.32	0.088	mg/L		09/29/23 12:14	10/03/23 15:40	4
Cadmium	<0.000078		0.0025	0.000078	mg/L		09/29/23 12:14	10/02/23 13:49	1
Calcium	270		0.50	0.14	mg/L		09/29/23 12:14	10/02/23 13:49	1
Chromium	0.0020		0.0020	0.0012	mg/L		09/29/23 12:14	10/02/23 13:49	1
Cobalt	0.00072	J	0.0025	0.00022	mg/L		09/29/23 12:14	10/02/23 13:49	1
Lead	<0.00021		0.0010	0.00021	mg/L		09/29/23 12:14	10/02/23 13:49	1
Lithium	0.18		0.0050	0.0020	mg/L		09/29/23 12:14	10/02/23 13:49	1
Molybdenum	0.018		0.015	0.00086	mg/L		09/29/23 12:14	10/02/23 13:49	1
Selenium	<0.00099		0.0050	0.00099	mg/L		09/29/23 12:14	10/02/23 13:49	1
Thallium	<0.00026		0.0010	0.00026	mg/L		09/29/23 12:14	10/02/23 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	1400		40	40	mg/L			10/03/23 11:19	1

QC Sample Results

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

Job ID: 680-240936-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-800946/33
Matrix: Water
Analysis Batch: 800946

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.20		1.0	0.20	mg/L			10/04/23 18:47	1
Fluoride	<0.040		0.10	0.040	mg/L			10/04/23 18:47	1
Sulfate	<0.40		1.0	0.40	mg/L			10/04/23 18:47	1

Lab Sample ID: LCS 680-800946/34
Matrix: Water
Analysis Batch: 800946

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	2.00	2.13		mg/L		106	90 - 110
Sulfate	10.0	10.5		mg/L		105	90 - 110

Lab Sample ID: LCSD 680-800946/35
Matrix: Water
Analysis Batch: 800946

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	2.00	2.13		mg/L		106	90 - 110	0	15
Sulfate	10.0	10.5		mg/L		105	90 - 110	0	15

Lab Sample ID: 500-240198-D-1 MS
Matrix: Water
Analysis Batch: 800946

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.048	J	2.00	2.21		mg/L		108	80 - 120
Sulfate	14		10.0	24.7		mg/L		107	80 - 120

Lab Sample ID: 500-240198-D-1 MSD
Matrix: Water
Analysis Batch: 800946

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.048	J	2.00	2.25		mg/L		110	80 - 120	2	15
Sulfate	14		10.0	24.2		mg/L		102	80 - 120	2	15

Lab Sample ID: MB 680-801159/2
Matrix: Water
Analysis Batch: 801159

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.20		1.0	0.20	mg/L			10/05/23 10:38	1
Fluoride	<0.040		0.10	0.040	mg/L			10/05/23 10:38	1
Sulfate	<0.40		1.0	0.40	mg/L			10/05/23 10:38	1

QC Sample Results

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

Job ID: 680-240936-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-801159/4
Matrix: Water
Analysis Batch: 801159

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	10.0	9.53		mg/L		95	90 - 110	
Fluoride	2.00	2.00		mg/L		100	90 - 110	
Sulfate	10.0	10.4		mg/L		104	90 - 110	

Lab Sample ID: LCSD 680-801159/5
Matrix: Water
Analysis Batch: 801159

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
Chloride	10.0	9.47		mg/L		95	90 - 110	1	15	
Fluoride	2.00	2.00		mg/L		100	90 - 110	0	15	
Sulfate	10.0	10.4		mg/L		104	90 - 110	0	15	

Lab Sample ID: 680-241079-A-1 MS
Matrix: Water
Analysis Batch: 801159

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	1.6		10.0	10.7		mg/L		92	80 - 120	
Fluoride	0.19		2.00	2.14		mg/L		98	80 - 120	
Sulfate	3.4		10.0	12.3		mg/L		89	80 - 120	

Lab Sample ID: 680-241079-A-1 MSD
Matrix: Water
Analysis Batch: 801159

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
Chloride	1.6		10.0	10.8		mg/L		93	80 - 120	1	15	
Fluoride	0.19		2.00	2.17		mg/L		99	80 - 120	1	15	
Sulfate	3.4		10.0	12.4		mg/L		90	80 - 120	1	15	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-800292/1-A
Matrix: Water
Analysis Batch: 800723

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 800292

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00034		0.0020	0.00034	mg/L		09/29/23 12:14	10/02/23 13:41	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		09/29/23 12:14	10/02/23 13:41	1
Barium	<0.00089		0.010	0.00089	mg/L		09/29/23 12:14	10/02/23 13:41	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		09/29/23 12:14	10/02/23 13:41	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		09/29/23 12:14	10/02/23 13:41	1
Calcium	<0.14		0.50	0.14	mg/L		09/29/23 12:14	10/02/23 13:41	1
Chromium	<0.0012		0.0020	0.0012	mg/L		09/29/23 12:14	10/02/23 13:41	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		09/29/23 12:14	10/02/23 13:41	1
Lead	<0.00021		0.0010	0.00021	mg/L		09/29/23 12:14	10/02/23 13:41	1
Lithium	<0.0020		0.0050	0.0020	mg/L		09/29/23 12:14	10/02/23 13:41	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		09/29/23 12:14	10/02/23 13:41	1
Selenium	<0.00099		0.0050	0.00099	mg/L		09/29/23 12:14	10/02/23 13:41	1

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QC Sample Results

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

Job ID: 680-240936-1

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

Lab Sample ID: MB 680-800292/1-A
Matrix: Water
Analysis Batch: 800723

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 800292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00026		0.0010	0.00026	mg/L		09/29/23 12:14	10/02/23 13:41	1

Lab Sample ID: MB 680-800292/1-A
Matrix: Water
Analysis Batch: 800906

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 800292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.022		0.080	0.022	mg/L		09/29/23 12:14	10/03/23 15:32	1

Lab Sample ID: LCS 680-800292/2-A
Matrix: Water
Analysis Batch: 800723

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 800292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Antimony	0.0500	0.0498		mg/L		100	80 - 120	
Arsenic	0.100	0.100		mg/L		100	80 - 120	
Barium	0.100	0.0959		mg/L		96	80 - 120	
Beryllium	0.0500	0.0536		mg/L		107	80 - 120	
Cadmium	0.0500	0.0498		mg/L		100	80 - 120	
Calcium	5.00	4.89		mg/L		98	80 - 120	
Chromium	0.100	0.103		mg/L		103	80 - 120	
Cobalt	0.0500	0.0513		mg/L		103	80 - 120	
Lead	0.500	0.497		mg/L		99	80 - 120	
Lithium	0.500	0.502		mg/L		100	80 - 120	
Molybdenum	0.100	0.105		mg/L		105	80 - 120	
Selenium	0.100	0.105		mg/L		105	80 - 120	
Thallium	0.0500	0.0486		mg/L		97	80 - 120	

Lab Sample ID: LCS 680-800292/2-A
Matrix: Water
Analysis Batch: 800906

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 800292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Boron	0.200	0.214		mg/L		107	80 - 120	

Lab Sample ID: 680-240936-1 MS
Matrix: Water
Analysis Batch: 800723

Client Sample ID: WAN-WGWC-28D
Prep Type: Total Recoverable
Prep Batch: 800292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Antimony	0.00057	J	0.0500	0.0512		mg/L		101	75 - 125	
Arsenic	0.0013		0.100	0.102		mg/L		101	75 - 125	
Barium	0.016		0.100	0.110		mg/L		94	75 - 125	
Beryllium	0.00073	J	0.0500	0.0547		mg/L		108	75 - 125	
Cadmium	<0.000078		0.0500	0.0500		mg/L		100	75 - 125	
Calcium	270		5.00	258	4	mg/L		-233	75 - 125	
Chromium	0.0020		0.100	0.103		mg/L		101	75 - 125	
Cobalt	0.00072	J	0.0500	0.0499		mg/L		98	75 - 125	
Lead	<0.00021		0.500	0.513		mg/L		103	75 - 125	
Lithium	0.18		0.500	0.675		mg/L		98	75 - 125	

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QC Sample Results

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

Job ID: 680-240936-1

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

Lab Sample ID: 680-240936-1 MS
Matrix: Water
Analysis Batch: 800723

Client Sample ID: WAN-WGWC-28D
Prep Type: Total Recoverable
Prep Batch: 800292

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Molybdenum	0.018		0.100	0.124		mg/L		106	75 - 125	
Selenium	<0.00099		0.100	0.104		mg/L		104	75 - 125	
Thallium	<0.00026		0.0500	0.0507		mg/L		101	75 - 125	

Lab Sample ID: 680-240936-1 MS
Matrix: Water
Analysis Batch: 800906

Client Sample ID: WAN-WGWC-28D
Prep Type: Total Recoverable
Prep Batch: 800292

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Boron	4.4		0.200	4.45	4	mg/L		8	75 - 125	

Lab Sample ID: 680-240936-1 MSD
Matrix: Water
Analysis Batch: 800723

Client Sample ID: WAN-WGWC-28D
Prep Type: Total Recoverable
Prep Batch: 800292

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits		RPD	Limit
Antimony	0.00057	J	0.0500	0.0512		mg/L		101	75 - 125		0	20
Arsenic	0.0013		0.100	0.0996		mg/L		98	75 - 125		3	20
Barium	0.016		0.100	0.109		mg/L		93	75 - 125		1	20
Beryllium	0.00073	J	0.0500	0.0547		mg/L		108	75 - 125		0	20
Cadmium	<0.000078		0.0500	0.0503		mg/L		101	75 - 125		0	20
Calcium	270		5.00	268	4	mg/L		-33	75 - 125		4	20
Chromium	0.0020		0.100	0.104		mg/L		102	75 - 125		1	20
Cobalt	0.00072	J	0.0500	0.0504		mg/L		99	75 - 125		1	20
Lead	<0.00021		0.500	0.510		mg/L		102	75 - 125		1	20
Lithium	0.18		0.500	0.679		mg/L		99	75 - 125		1	20
Molybdenum	0.018		0.100	0.120		mg/L		103	75 - 125		3	20
Selenium	<0.00099		0.100	0.106		mg/L		106	75 - 125		1	20
Thallium	<0.00026		0.0500	0.0502		mg/L		100	75 - 125		1	20

Lab Sample ID: 680-240936-1 MSD
Matrix: Water
Analysis Batch: 800906

Client Sample ID: WAN-WGWC-28D
Prep Type: Total Recoverable
Prep Batch: 800292

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits		RPD	Limit
Boron	4.4		0.200	4.71	4	mg/L		143	75 - 125		6	20

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-800780/1
Matrix: Water
Analysis Batch: 800780

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<10		10	10	mg/L			10/03/23 11:19	1

QC Sample Results

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

Job ID: 680-240936-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: LCS 680-800780/2
Matrix: Water
Analysis Batch: 800780

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	2470	2430		mg/L		98	80 - 120

Lab Sample ID: LCSD 680-800780/3
Matrix: Water
Analysis Batch: 800780

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2470	2430		mg/L		98	80 - 120	0	25

Lab Sample ID: 680-240897-A-4 DU
Matrix: Water
Analysis Batch: 800780

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	560		564		mg/L		0.7	5

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 680-240936-1

HPLC/IC

Analysis Batch: 800946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-240936-1	WAN-WGWC-28D	Total/NA	Water	300.0-1993 R2.1	
MB 680-800946/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-800946/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-800946/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
500-240198-D-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
500-240198-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 801159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-240936-1 - DL	WAN-WGWC-28D	Total/NA	Water	300.0-1993 R2.1	
MB 680-801159/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-801159/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-801159/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-241079-A-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-241079-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 800292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-240936-1	WAN-WGWC-28D	Total Recoverable	Water	3005A	
MB 680-800292/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-800292/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-240936-1 MS	WAN-WGWC-28D	Total Recoverable	Water	3005A	
680-240936-1 MSD	WAN-WGWC-28D	Total Recoverable	Water	3005A	

Analysis Batch: 800723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-240936-1	WAN-WGWC-28D	Total Recoverable	Water	6020B	800292
MB 680-800292/1-A	Method Blank	Total Recoverable	Water	6020B	800292
LCS 680-800292/2-A	Lab Control Sample	Total Recoverable	Water	6020B	800292
680-240936-1 MS	WAN-WGWC-28D	Total Recoverable	Water	6020B	800292
680-240936-1 MSD	WAN-WGWC-28D	Total Recoverable	Water	6020B	800292

Analysis Batch: 800906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-240936-1	WAN-WGWC-28D	Total Recoverable	Water	6020B	800292
MB 680-800292/1-A	Method Blank	Total Recoverable	Water	6020B	800292
LCS 680-800292/2-A	Lab Control Sample	Total Recoverable	Water	6020B	800292
680-240936-1 MS	WAN-WGWC-28D	Total Recoverable	Water	6020B	800292
680-240936-1 MSD	WAN-WGWC-28D	Total Recoverable	Water	6020B	800292

General Chemistry

Analysis Batch: 800780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-240936-1	WAN-WGWC-28D	Total/NA	Water	2540C-2011	
MB 680-800780/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-800780/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-800780/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-240897-A-4 DU	Duplicate	Total/NA	Water	2540C-2011	

Eurofins Savannah

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 680-240936-1

Client Sample ID: WAN-WGWC-28D

Lab Sample ID: 680-240936-1

Date Collected: 09/26/23 17:53

Matrix: Water

Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	800946	10/05/23 00:16	UI	EET SAV
Instrument ID: CICK										
Total/NA	Analysis	300.0-1993 R2.1	DL	10	5 mL	5 mL	801159	10/05/23 16:06	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	800292	09/29/23 12:14	RR	EET SAV
Total Recoverable	Analysis	6020B		1			800723	10/02/23 13:49	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	800292	09/29/23 12:14	RR	EET SAV
Total Recoverable	Analysis	6020B		4			800906	10/03/23 15:40	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	800780	10/03/23 11:19	PG	EET SAV
Instrument ID: NOEQUIP										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 680-240936-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

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Method Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 680-240936-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-240936-1

Login Number: 240936

List Number: 1

Creator: Munro, Caroline

List Source: Eurofins Savannah

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Generated 10/30/2023 2:58:07 PM

JOB DESCRIPTION

Plant Wansley Ash Pond

JOB NUMBER

680-240936-2

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 680-240936-2

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

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 680-240936-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-240936-1	WAN-WGWC-28D	Water	09/26/23 17:53	09/29/23 08:00

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Case Narrative

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 680-240936-2

Job ID: 680-240936-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-240936-2

Receipt

The sample was received on 9/29/2023 8:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 batch 630678. 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. WAN-WGWC-28D (680-240936-1), (LCS 160-630678/2-A), (MB 160-630678/1-A), (380-64846-A-1-A) and (380-64846-B-1-A DU)

Method 9320_Ra228: Radium-228 batch 630679. 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. WAN-WGWC-28D (680-240936-1), (LCS 160-630679/2-A), (MB 160-630679/1-A), (380-64846-A-1-B) and (380-64846-B-1-B DU)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 680-240936-2

Client Sample ID: WAN-WGWC-28D

Lab Sample ID: 680-240936-1

Date Collected: 09/26/23 17:53

Matrix: Water

Date Received: 09/29/23 08:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.56		0.530	0.620	1.00	0.274	pCi/L	10/04/23 11:33	10/26/23 09:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	60.9		30 - 110					10/04/23 11:33	10/26/23 09:25	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	11.8		1.28	1.68	1.00	0.679	pCi/L	10/04/23 11:37	10/24/23 11:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	60.9		30 - 110					10/04/23 11:37	10/24/23 11:24	1
Y Carrier	84.1		30 - 110					10/04/23 11:37	10/24/23 11:24	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	15.4		1.39	1.79	2.00	0.679	pCi/L		10/27/23 16:21	1

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 680-240936-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
380-64846-B-1-A DU	Duplicate	55.5	
680-240936-1	WAN-WGWC-28D	60.9	
LCS 160-630678/2-A	Lab Control Sample	88.5	
MB 160-630678/1-A	Method Blank	76.5	

Tracer/Carrier Legend
Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
380-64846-B-1-B DU	Duplicate	55.5	76.3
680-240936-1	WAN-WGWC-28D	60.9	84.1
LCS 160-630679/2-A	Lab Control Sample	88.5	84.9
MB 160-630679/1-A	Method Blank	76.5	81.1

Tracer/Carrier Legend
Ba = Ba Carrier
Y = Y Carrier

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 680-240936-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-630678/1-A
Matrix: Water
Analysis Batch: 633700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630678

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.04924	U	0.117	0.117	1.00	0.261	pCi/L	10/04/23 11:33	10/26/23 07:38	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	76.5		30 - 110		10/04/23 11:33	10/26/23 07:38	1			

Lab Sample ID: LCS 160-630678/2-A
Matrix: Water
Analysis Batch: 633700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630678

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.71		1.25	1.00	0.264	pCi/L	95	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	88.5		30 - 110						

Lab Sample ID: 380-64846-B-1-A DU
Matrix: Water
Analysis Batch: 633701

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 630678

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.00211	U	-0.09688	U	0.140	1.00	0.335	pCi/L	0.32	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	55.5		30 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-630679/1-A
Matrix: Water
Analysis Batch: 633137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630679

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.3615	U	0.366	0.368	1.00	0.589	pCi/L	10/04/23 11:37	10/24/23 11:16	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	76.5		30 - 110		10/04/23 11:37	10/24/23 11:16	1			
Y Carrier	81.1		30 - 110		10/04/23 11:37	10/24/23 11:16	1			

QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 680-240936-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-630679/2-A
Matrix: Water
Analysis Batch: 633137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630679

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
	LCS LCS								
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	88.5		30 - 110						
Y Carrier	84.9		30 - 110						

Lab Sample ID: 380-64846-B-1-B DU
Matrix: Water
Analysis Batch: 633137

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 630679

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-228	0.993		1.045		0.641	1.00	0.922	pCi/L	0.04	1
	DU DU									
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	55.5		30 - 110							
Y Carrier	76.3		30 - 110							

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 680-240936-2

Rad

Prep Batch: 630678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-240936-1	WAN-WGWC-28D	Total/NA	Water	PrecSep-21	
MB 160-630678/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-630678/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
380-64846-B-1-A DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 630679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-240936-1	WAN-WGWC-28D	Total/NA	Water	PrecSep_0	
MB 160-630679/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-630679/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
380-64846-B-1-B DU	Duplicate	Total/NA	Water	PrecSep_0	



Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 680-240936-2

Client Sample ID: WAN-WGWC-28D

Lab Sample ID: 680-240936-1

Date Collected: 09/26/23 17:53

Matrix: Water

Date Received: 09/29/23 08:00

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			1004.79 mL	1.0 g	630678	10/04/23 11:33	KAC	EET SL
Total/NA	Analysis	9315		1			633701	10/26/23 09:25	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1004.79 mL	1.0 g	630679	10/04/23 11:37	KAC	EET SL
Total/NA	Analysis	9320		1			633299	10/24/23 11:24	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			633947	10/27/23 16:21	EMH	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 680-240936-2

Laboratory: Eurofins St. Louis

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87689	06-30-24

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Method Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 680-240936-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-240936-2

Login Number: 240936

List Number: 1

Creator: Munro, Caroline

List Source: Eurofins Savannah

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-240936-2

Login Number: 240936

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 10/03/23 12:29 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ANALYTICAL REPORT

PREPARED FOR

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Generated 11/22/2023 4:48:22 PM

JOB DESCRIPTION

Plant Wansley - Ash Pond

JOB NUMBER

680-242746-1

Eurofins Savannah

Job Notes

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Authorization



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Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-242746-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

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

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-242746-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
680-242746-1	WAN-WGWC-28D	Water	11/07/23 14:05	11/09/23 06:45

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Case Narrative

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-242746-1

Job ID: 680-242746-1

Laboratory: Eurofins Savannah

Narrative

**Job Narrative
680-242746-1**

Receipt

The sample was received on 11/9/2023 6:45 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.9°C

HPLC/IC

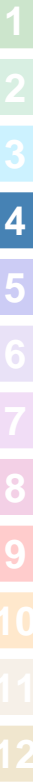
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-242746-1

Client Sample ID: WAN-WGWC-28D

Lab Sample ID: 680-242746-1

Date Collected: 11/07/23 14:05

Matrix: Water

Date Received: 11/09/23 06:45

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	480		10	5.0	mg/L			11/21/23 20:24	10
Fluoride	2.1		1.0	2.0	mg/L			11/20/23 21:47	10
Chloride	600		10	2.0	mg/L			11/20/23 21:47	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.4		0.080	0.022	mg/L		11/10/23 06:18	11/13/23 15:18	1
Calcium	310		0.50	0.14	mg/L		11/10/23 06:18	11/11/23 04:03	1
Iron	2.1		0.050	0.012	mg/L		11/10/23 06:18	11/11/23 04:03	1
Lithium	0.21		0.0050	0.0020	mg/L		11/10/23 06:18	11/11/23 04:03	1
Magnesium	54		0.50	0.023	mg/L		11/10/23 06:18	11/11/23 04:03	1
Manganese	2.0		0.0050	0.0022	mg/L		11/10/23 06:18	11/11/23 04:03	1
Potassium	61		0.50	0.044	mg/L		11/10/23 06:18	11/11/23 04:03	1
Sodium	170		0.50	0.20	mg/L		11/10/23 06:18	11/11/23 04:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	76		5.5	5.0	mg/L			11/16/23 11:25	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	76		11	5.0	mg/L			11/16/23 11:25	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		11	5.0	mg/L			11/16/23 11:25	1
Total Dissolved Solids (SM 2540C-2011)	1600		40	40	mg/L			11/13/23 11:51	1
Sulfide (SM 4500 S2 F-2011)	3.3		0.81	0.81	mg/L			11/13/23 13:24	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-242746-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 670-64211/36
Matrix: Water
Analysis Batch: 64211

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.50		1.0	0.50	mg/L			11/20/23 20:24	1
Fluoride	<0.20		0.10	0.20	mg/L			11/20/23 20:24	1
Chloride	<0.20		1.0	0.20	mg/L			11/20/23 20:24	1

Lab Sample ID: MB 670-64211/6
Matrix: Water
Analysis Batch: 64211

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.50		1.0	0.50	mg/L			11/20/23 11:47	1
Fluoride	<0.20		0.10	0.20	mg/L			11/20/23 11:47	1
Chloride	<0.20		1.0	0.20	mg/L			11/20/23 11:47	1

Lab Sample ID: LCS 670-64211/34
Matrix: Water
Analysis Batch: 64211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	4.00	3.32	*-	mg/L		83	90 - 110
Fluoride	4.00	4.20		mg/L		105	90 - 110
Chloride	4.00	4.08		mg/L		102	90 - 110

Lab Sample ID: LCSD 670-64211/35
Matrix: Water
Analysis Batch: 64211

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	4.00	2.93	*-	mg/L		73	90 - 110	12	20
Fluoride	4.00	4.21		mg/L		105	90 - 110	0	20
Chloride	4.00	4.08		mg/L		102	90 - 110	0	20

Lab Sample ID: 670-30636-B-1 MS
Matrix: Water
Analysis Batch: 64211

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	24	*-	5.00	28.7	4	mg/L		94	80 - 120
Fluoride	<0.20		5.00	5.06		mg/L		101	80 - 120
Chloride	22		5.00	26.6	4	mg/L		96	80 - 120

Lab Sample ID: 670-30636-B-1 MSD
Matrix: Water
Analysis Batch: 64211

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	24	*-	5.00	28.3	4	mg/L		87	80 - 120	1	20
Fluoride	<0.20		5.00	5.05		mg/L		101	80 - 120	0	20
Chloride	22		5.00	26.6	4	mg/L		95	80 - 120	0	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-242746-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 670-64397/57
Matrix: Water
Analysis Batch: 64397

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.50		1.0	0.50	mg/L			11/21/23 19:24	1
Fluoride	<0.20		0.10	0.20	mg/L			11/21/23 19:24	1
Chloride	<0.20		1.0	0.20	mg/L			11/21/23 19:24	1

Lab Sample ID: MB 670-64397/6
Matrix: Water
Analysis Batch: 64397

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.50		1.0	0.50	mg/L			11/21/23 10:39	1
Fluoride	<0.20		0.10	0.20	mg/L			11/21/23 10:39	1
Chloride	<0.20		1.0	0.20	mg/L			11/21/23 10:39	1

Lab Sample ID: LCS 670-64397/55
Matrix: Water
Analysis Batch: 64397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	4.00	4.22		mg/L		105	90 - 110
Fluoride	4.00	3.93		mg/L		98	90 - 110
Chloride	4.00	3.85		mg/L		96	90 - 110

Lab Sample ID: LCSD 670-64397/56
Matrix: Water
Analysis Batch: 64397

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	4.00	4.13		mg/L		103	90 - 110	2	20
Fluoride	4.00	3.95		mg/L		99	90 - 110	0	20
Chloride	4.00	3.81		mg/L		95	90 - 110	1	20

Lab Sample ID: 670-30636-B-2 MS
Matrix: Water
Analysis Batch: 64397

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	48		5.00	49.7	4	mg/L		28	80 - 120
Fluoride	<0.20		5.00	5.18		mg/L		104	80 - 120
Chloride	54		5.00	56.5	4	mg/L		50	80 - 120

Lab Sample ID: 670-30636-B-2 MSD
Matrix: Water
Analysis Batch: 64397

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	48		5.00	49.9	4	mg/L		33	80 - 120	1	20
Fluoride	<0.20		5.00	5.19		mg/L		104	80 - 120	0	20
Chloride	54		5.00	56.8	4	mg/L		57	80 - 120	1	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-242746-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-807485/1-A
Matrix: Water
Analysis Batch: 807832

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 807485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.14		0.50	0.14	mg/L		11/10/23 06:18	11/11/23 03:18	1
Iron	<0.012		0.050	0.012	mg/L		11/10/23 06:18	11/11/23 03:18	1
Lithium	<0.0020		0.0050	0.0020	mg/L		11/10/23 06:18	11/11/23 03:18	1
Magnesium	<0.023		0.50	0.023	mg/L		11/10/23 06:18	11/11/23 03:18	1
Manganese	<0.0022		0.0050	0.0022	mg/L		11/10/23 06:18	11/11/23 03:18	1
Potassium	<0.044		0.50	0.044	mg/L		11/10/23 06:18	11/11/23 03:18	1
Sodium	<0.20		0.50	0.20	mg/L		11/10/23 06:18	11/11/23 03:18	1

Lab Sample ID: MB 680-807485/1-A
Matrix: Water
Analysis Batch: 808049

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 807485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.022		0.080	0.022	mg/L		11/10/23 06:18	11/13/23 14:58	1

Lab Sample ID: LCS 680-807485/2-A
Matrix: Water
Analysis Batch: 807832

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 807485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5.00	4.97		mg/L		99	80 - 120
Iron	4.99	5.08		mg/L		102	80 - 120
Lithium	0.500	0.460		mg/L		92	80 - 120
Magnesium	5.00	4.68		mg/L		94	80 - 120
Manganese	0.400	0.420		mg/L		105	80 - 120
Potassium	7.00	7.03		mg/L		100	80 - 120
Sodium	5.03	4.84		mg/L		96	80 - 120

Lab Sample ID: LCS 680-807485/2-A
Matrix: Water
Analysis Batch: 808049

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 807485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.400	0.389		mg/L		97	80 - 120

Lab Sample ID: 752-13490-C-3-E MS
Matrix: Water
Analysis Batch: 807832

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 807485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	42		5.00	35.0	4	mg/L		-144	75 - 125
Iron	0.13		4.99	5.37		mg/L		105	75 - 125
Lithium	<0.0020		0.500	0.522		mg/L		104	75 - 125
Magnesium	7.8	F1	5.00	10.5	F1	mg/L		55	75 - 125
Manganese	0.089		0.400	0.501		mg/L		103	75 - 125
Potassium	140		7.00	131	4	mg/L		-154	75 - 125
Sodium	55		5.03	51.4	4	mg/L		-80	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-242746-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 752-13490-C-3-E MS
Matrix: Water
Analysis Batch: 808049

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 807485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.064	J	0.400	0.440		mg/L		94	75 - 125

Lab Sample ID: 752-13490-C-3-F MSD
Matrix: Water
Analysis Batch: 807832

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 807485

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	42		5.00	40.4	4	mg/L		-36	75 - 125	14	20
Iron	0.13		4.99	5.85		mg/L		115	75 - 125	9	20
Lithium	<0.0020		0.500	0.541		mg/L		108	75 - 125	4	20
Magnesium	7.8	F1	5.00	11.8		mg/L		81	75 - 125	12	20
Manganese	0.089		0.400	0.538		mg/L		112	75 - 125	7	20
Potassium	140		7.00	139	4	mg/L		-38	75 - 125	6	20
Sodium	55		5.03	54.5	4	mg/L		-19	75 - 125	6	20

Lab Sample ID: 752-13490-C-3-F MSD
Matrix: Water
Analysis Batch: 808049

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 807485

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.064	J	0.400	0.444		mg/L		95	75 - 125	1	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-808619/4
Matrix: Water
Analysis Batch: 808619

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	<5.0		5.5	5.0	mg/L			11/16/23 11:25	1
Bicarbonate Alkalinity as CaCO3	<5.0		11	5.0	mg/L			11/16/23 11:25	1
Carbonate Alkalinity as CaCO3	<5.0		11	5.0	mg/L			11/16/23 11:25	1

Lab Sample ID: LCS 680-808619/6
Matrix: Water
Analysis Batch: 808619

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	250	244		mg/L		98	90 - 112

Lab Sample ID: LCSD 680-808619/31
Matrix: Water
Analysis Batch: 808619

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	249		mg/L		100	90 - 112	2	30

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-242746-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: 680-242735-D-11 DU
Matrix: Water
Analysis Batch: 808619

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30
Bicarbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-807892/1
Matrix: Water
Analysis Batch: 807892

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			11/13/23 11:51	1

Lab Sample ID: LCS 680-807892/2
Matrix: Water
Analysis Batch: 807892

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	2470	2400		mg/L		97	80 - 120

Lab Sample ID: LCSD 680-807892/3
Matrix: Water
Analysis Batch: 807892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Total Dissolved Solids	2470	2420		mg/L		98	80 - 120	1	25

Lab Sample ID: 680-242746-1 DU
Matrix: Water
Analysis Batch: 807892

Client Sample ID: WAN-WGWC-28D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	1600		1620		mg/L		0.7	5

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-807928/1
Matrix: Water
Analysis Batch: 807928

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			11/13/23 13:24	1

Lab Sample ID: LCS 680-807928/2
Matrix: Water
Analysis Batch: 807928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	8.59		mg/L		86	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-242746-1

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: LCSD 680-807928/3
Matrix: Water
Analysis Batch: 807928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	10.0	8.64		mg/L		86	75 - 125	1	30

Lab Sample ID: 752-13525-G-8 MS
Matrix: Water
Analysis Batch: 807928

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.81		6.50	7.81		mg/L		120	75 - 125		

Lab Sample ID: 752-13525-G-8 MSD
Matrix: Water
Analysis Batch: 807928

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.81		6.50	7.81		mg/L		120	75 - 125	0	30

Lab Sample ID: 680-242746-1 DU
Matrix: Water
Analysis Batch: 807928

Client Sample ID: WAN-WGWC-28D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	3.3		3.75		mg/L		11	30

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-242746-1

HPLC/IC

Analysis Batch: 64211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-242746-1	WAN-WGWC-28D	Total/NA	Water	300.0	
MB 670-64211/36	Method Blank	Total/NA	Water	300.0	
MB 670-64211/6	Method Blank	Total/NA	Water	300.0	
LCS 670-64211/34	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-64211/35	Lab Control Sample Dup	Total/NA	Water	300.0	
670-30636-B-1 MS	Matrix Spike	Total/NA	Water	300.0	
670-30636-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 64397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-242746-1	WAN-WGWC-28D	Total/NA	Water	300.0	
MB 670-64397/57	Method Blank	Total/NA	Water	300.0	
MB 670-64397/6	Method Blank	Total/NA	Water	300.0	
LCS 670-64397/55	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-64397/56	Lab Control Sample Dup	Total/NA	Water	300.0	
670-30636-B-2 MS	Matrix Spike	Total/NA	Water	300.0	
670-30636-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 807485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-242746-1	WAN-WGWC-28D	Total Recoverable	Water	3005A	
MB 680-807485/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-807485/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
752-13490-C-3-E MS	Matrix Spike	Total Recoverable	Water	3005A	
752-13490-C-3-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 807832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-242746-1	WAN-WGWC-28D	Total Recoverable	Water	6020B	807485
MB 680-807485/1-A	Method Blank	Total Recoverable	Water	6020B	807485
LCS 680-807485/2-A	Lab Control Sample	Total Recoverable	Water	6020B	807485
752-13490-C-3-E MS	Matrix Spike	Total Recoverable	Water	6020B	807485
752-13490-C-3-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	807485

Analysis Batch: 808049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-242746-1	WAN-WGWC-28D	Total Recoverable	Water	6020B	807485
MB 680-807485/1-A	Method Blank	Total Recoverable	Water	6020B	807485
LCS 680-807485/2-A	Lab Control Sample	Total Recoverable	Water	6020B	807485
752-13490-C-3-E MS	Matrix Spike	Total Recoverable	Water	6020B	807485
752-13490-C-3-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	807485

General Chemistry

Analysis Batch: 807892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-242746-1	WAN-WGWC-28D	Total/NA	Water	2540C-2011	
MB 680-807892/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-807892/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-807892/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-242746-1

General Chemistry (Continued)

Analysis Batch: 807892 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-242746-1 DU	WAN-WGWC-28D	Total/NA	Water	2540C-2011	

Analysis Batch: 807928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-242746-1	WAN-WGWC-28D	Total/NA	Water	4500 S2 F-2011	
MB 680-807928/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-807928/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-807928/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
752-13525-G-8 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
752-13525-G-8 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
680-242746-1 DU	WAN-WGWC-28D	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 808619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-242746-1	WAN-WGWC-28D	Total/NA	Water	2320B-2011	
MB 680-808619/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-808619/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-808619/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-242735-D-11 DU	Duplicate	Total/NA	Water	2320B-2011	

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-242746-1

Client Sample ID: WAN-WGWC-28D

Lab Sample ID: 680-242746-1

Date Collected: 11/07/23 14:05

Matrix: Water

Date Received: 11/09/23 06:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			64397	11/21/23 20:24	YS	EET ORL
	Instrument ID: IC_002									
Total/NA	Analysis	300.0		10			64211	11/20/23 21:47	YS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	807485	11/10/23 06:18	RR	EET SAV
Total Recoverable	Analysis	6020B		1			807832	11/11/23 04:03	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	807485	11/10/23 06:18	RR	EET SAV
Total Recoverable	Analysis	6020B		1			808049	11/13/23 15:18	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			808619	11/16/23 11:25	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	807892	11/13/23 11:51	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	807928	11/13/23 13:24	JAS	EET SAV
	Instrument ID: NoEquip									

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-242746-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

Laboratory: Eurofins Orlando

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	42800	06-30-24
Florida	NELAP	E83018	06-30-24
Georgia (DW)	State	C055	06-30-24
Louisiana (All)	NELAP	239316	06-30-24
Louisiana (DW)	State	LA039	05-24-24
Mississippi	State	MS00007	06-30-24
New Mexico	State	FL00091	06-30-24
North Carolina (DW)	State	12712	07-31-24
Tennessee	State	TN04930	06-30-24
Texas	NELAP	T104704571	02-29-24
Washington	State	C1089	10-19-24

Method Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-242746-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET ORL
6020B	Metals (ICP/MS)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
4500 S2 F-2011	Sulfide, Total	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Fuller, David	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-756558.1					
Client Contact: Shipping/Receiving		Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1					
Company: Eurofins Environment Testing Southeast,			Accreditations Required (See note): NELAP - Florida; State - Georgia		Job #: 680-242746-1					
Address: 481 Newburyport Avenue,		Due Date Requested: 11/27/2023	Analysis Requested							
City: Altamonte Springs		TAT Requested (days):								
State, Zip: FL, 32701										
Phone: 407-339-5984(Tel) 407-260-6110(Fax)		PO #:								
Email:		WO #:								
Project Name: Plant Wansley - Ash Pond		Project #: 68027766	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)							
Site:		SSOW#:								
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ Chloride Fluoride Sulfate	Total Number of containers	Special Instructions/Note:
WAN-WGWC-28D (680-242746-1)		11/7/23	14:05 Eastern		Water		X		1	
Preservation Code										
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.</p>										
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 2		Special Instructions/QC Requirements:					
Empty Kit Relinquished by:			Date:		Time:			Method of Shipment:		
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:
Relinquished by:		Date/Time:		Company:		Received by: <i>Amox</i>		Date/Time: 11/18/23 930		Company:
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: <i>2.0/0.8</i> <i>516</i>					



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-242746-1

Login Number: 242746

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-242746-1

Login Number: 242746

List Number: 2

Creator: Bittle, David W

List Source: Eurofins Orlando

List Creation: 11/18/23 10:41 AM

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

PREPARED FOR

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Generated 8/28/2023 11:35:28 AM

JOB DESCRIPTION

Plant Wansley Ash Pond - Risk Evaluation

JOB NUMBER

680-239333-1

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
8/28/2023 11:35:28 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-239333-1

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

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-239333-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-239333-1	WAN-WCR(+0.1)	Water	08/16/23 11:39	08/19/23 09:00
680-239333-2	WAN-WCR(+1.9)	Water	08/16/23 12:09	08/19/23 09:00
680-239333-3	WAN-WCR(-0.6)	Water	08/16/23 11:01	08/19/23 09:00

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Case Narrative

Client: Southern Company
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-239333-1

Job ID: 680-239333-1

Laboratory: Eurofins Savannah

Narrative

**Job Narrative
680-239333-1**

Receipt

The samples were received on 8/19/2023 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 time was 2.7°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-239333-1

Client Sample ID: WAN-WCR(+0.1)

Lab Sample ID: 680-239333-1

Date Collected: 08/16/23 11:39

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		08/21/23 05:40	08/21/23 14:08	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0050		0.0050	0.0020	mg/L		08/22/23 06:43	08/22/23 13:06	1

Client Sample ID: WAN-WCR(+1.9)

Lab Sample ID: 680-239333-2

Date Collected: 08/16/23 12:09

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		08/21/23 05:40	08/21/23 14:04	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0050		0.0050	0.0020	mg/L		08/22/23 06:43	08/22/23 13:02	1

Client Sample ID: WAN-WCR(-0.6)

Lab Sample ID: 680-239333-3

Date Collected: 08/16/23 11:01

Matrix: Water

Date Received: 08/19/23 09:00

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		08/21/23 05:40	08/21/23 14:00	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0050		0.0050	0.0020	mg/L		08/22/23 06:43	08/22/23 12:50	1

QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-239333-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-794237/1-A
Matrix: Water
Analysis Batch: 794434

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 794237

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		08/21/23 05:40	08/21/23 12:51	1

Lab Sample ID: LCS 680-794237/2-A
Matrix: Water
Analysis Batch: 794434

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 794237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.497		mg/L		99	80 - 120

Lab Sample ID: 752-10693-A-5-E MS
Matrix: Water
Analysis Batch: 794434

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 794237

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	<0.0050		0.500	0.491		mg/L		98	75 - 125

Lab Sample ID: 752-10693-A-5-F MSD
Matrix: Water
Analysis Batch: 794434

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 794237

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	<0.0050		0.500	0.488		mg/L		98	75 - 125	1	20

Lab Sample ID: MB 680-794424/1-B
Matrix: Water
Analysis Batch: 794582

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 794425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0050		0.0050	0.0020	mg/L		08/22/23 06:43	08/22/23 12:41	1

Lab Sample ID: LCS 680-794424/2-B
Matrix: Water
Analysis Batch: 794582

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 794425

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium, Dissolved	0.500	0.476		mg/L		95	80 - 120

Lab Sample ID: 680-239333-3 MS
Matrix: Water
Analysis Batch: 794582

Client Sample ID: WAN-WCR(-0.6)
Prep Type: Dissolved
Prep Batch: 794425

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium, Dissolved	<0.0050		0.500	0.483		mg/L		97	75 - 125

Lab Sample ID: 680-239333-3 MSD
Matrix: Water
Analysis Batch: 794582

Client Sample ID: WAN-WCR(-0.6)
Prep Type: Dissolved
Prep Batch: 794425

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium, Dissolved	<0.0050		0.500	0.495		mg/L		99	75 - 125	2	20

Eurofins Savannah

QC Association Summary

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-239333-1

Metals

Prep Batch: 794237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239333-1	WAN-WCR(+0.1)	Total Recoverable	Water	3005A	
680-239333-2	WAN-WCR(+1.9)	Total Recoverable	Water	3005A	
680-239333-3	WAN-WCR(-0.6)	Total Recoverable	Water	3005A	
MB 680-794237/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-794237/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
752-10693-A-5-E MS	Matrix Spike	Total Recoverable	Water	3005A	
752-10693-A-5-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Filtration Batch: 794424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239333-1	WAN-WCR(+0.1)	Dissolved	Water	FILTRATION	
680-239333-2	WAN-WCR(+1.9)	Dissolved	Water	FILTRATION	
680-239333-3	WAN-WCR(-0.6)	Dissolved	Water	FILTRATION	
MB 680-794424/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-794424/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
680-239333-3 MS	WAN-WCR(-0.6)	Dissolved	Water	FILTRATION	
680-239333-3 MSD	WAN-WCR(-0.6)	Dissolved	Water	FILTRATION	

Prep Batch: 794425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239333-1	WAN-WCR(+0.1)	Dissolved	Water	3005A	794424
680-239333-2	WAN-WCR(+1.9)	Dissolved	Water	3005A	794424
680-239333-3	WAN-WCR(-0.6)	Dissolved	Water	3005A	794424
MB 680-794424/1-B	Method Blank	Dissolved	Water	3005A	794424
LCS 680-794424/2-B	Lab Control Sample	Dissolved	Water	3005A	794424
680-239333-3 MS	WAN-WCR(-0.6)	Dissolved	Water	3005A	794424
680-239333-3 MSD	WAN-WCR(-0.6)	Dissolved	Water	3005A	794424

Analysis Batch: 794434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239333-1	WAN-WCR(+0.1)	Total Recoverable	Water	6020B	794237
680-239333-2	WAN-WCR(+1.9)	Total Recoverable	Water	6020B	794237
680-239333-3	WAN-WCR(-0.6)	Total Recoverable	Water	6020B	794237
MB 680-794237/1-A	Method Blank	Total Recoverable	Water	6020B	794237
LCS 680-794237/2-A	Lab Control Sample	Total Recoverable	Water	6020B	794237
752-10693-A-5-E MS	Matrix Spike	Total Recoverable	Water	6020B	794237
752-10693-A-5-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	794237

Analysis Batch: 794582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239333-1	WAN-WCR(+0.1)	Dissolved	Water	6020B	794425
680-239333-2	WAN-WCR(+1.9)	Dissolved	Water	6020B	794425
680-239333-3	WAN-WCR(-0.6)	Dissolved	Water	6020B	794425
MB 680-794424/1-B	Method Blank	Dissolved	Water	6020B	794425
LCS 680-794424/2-B	Lab Control Sample	Dissolved	Water	6020B	794425
680-239333-3 MS	WAN-WCR(-0.6)	Dissolved	Water	6020B	794425
680-239333-3 MSD	WAN-WCR(-0.6)	Dissolved	Water	6020B	794425

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-239333-1

Client Sample ID: WAN-WCR(+0.1)

Lab Sample ID: 680-239333-1

Date Collected: 08/16/23 11:39

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			25 mL	125 mL	794424	08/22/23 06:43	RR	EET SAV
Dissolved	Prep	3005A			25 mL	125 mL	794425	08/22/23 06:43	RR	EET SAV
Dissolved	Analysis	6020B		1			794582	08/22/23 13:06	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	794237	08/21/23 05:40	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 14:08	BWR	EET SAV
Instrument ID: ICPMSC										

Client Sample ID: WAN-WCR(+1.9)

Lab Sample ID: 680-239333-2

Date Collected: 08/16/23 12:09

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			25 mL	125 mL	794424	08/22/23 06:43	RR	EET SAV
Dissolved	Prep	3005A			25 mL	125 mL	794425	08/22/23 06:43	RR	EET SAV
Dissolved	Analysis	6020B		1			794582	08/22/23 13:02	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	794237	08/21/23 05:40	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 14:04	BWR	EET SAV
Instrument ID: ICPMSC										

Client Sample ID: WAN-WCR(-0.6)

Lab Sample ID: 680-239333-3

Date Collected: 08/16/23 11:01

Matrix: Water

Date Received: 08/19/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			25 mL	125 mL	794424	08/22/23 06:43	RR	EET SAV
Dissolved	Prep	3005A			25 mL	125 mL	794425	08/22/23 06:43	RR	EET SAV
Dissolved	Analysis	6020B		1			794582	08/22/23 12:50	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	794237	08/21/23 05:40	RR	EET SAV
Total Recoverable	Analysis	6020B		1			794434	08/21/23 14:00	BWR	EET SAV
Instrument ID: ICPMSC										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-239333-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Method Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-239333-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
FILTRATION	Sample Filtration	None	EET SAV

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-239333-1

Login Number: 239333

List Number: 1

Creator: Sims, Robert D

List Source: Eurofins Savannah

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Memorandum

Date: April 18, 2023
To: Adria Reimer
From: Ashley Wilson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-230721-1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of fifteen water samples, one field duplicate sample, one equipment blank and one field blank, collected 14-15 February 2023, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Savannah, Savannah, Georgia, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Total Sulfide by Standard Method (SM) 4500 S2 F-2011
- Total Dissolved Solids (TDS) by SM 2540C
- Alkalinity by SM 2320B

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. 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 reports:

Laboratory IDs	Client IDs
680-230721-1	WAN-WGWA-1
680-230721-2	WAN-WGWA-2
680-230721-3	WAN-WGWA-3
680-230721-4	WAN-WGWA-4
680-230721-5	WAN-WGWA-5
680-230721-6	WAN-WGWA-6
680-230721-7	WAN-WGWA-7
680-230721-8	WAN-WGWA-18
680-230721-9	WAN-WGWC-15

Laboratory IDs	Client IDs
680-230721-10	WAN-WGWC-16
680-230721-11	WAN-WGWC-25
680-230721-12	WAN-WGWC-22
680-230721-13	WAN-WGWC-24
680-230721-14	WAN-WGWC-9
680-230721-15	WAN-WGWC-23
680-230721-16	WAN-API-FD-01
680-230721-17	WAN-API-FB-07
680-230721-18	WAN-API-EB-01

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The field pH data included in the laboratory report were not validated.

A “U” qualification was added to the nondetect data in the electronic data deliverable (EDD).

1.0 METALS

The samples were analyzed for metals by US EPA 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 or not applicable. 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 764052). Metals were not detected in the method blank above the method detection limits (MDLs), with the following exception.

Boron was detected in the method blank at an estimated concentration greater than the MDL and less than the reporting limit (RL). Therefore, the estimated concentrations of boron in samples WAN-AP1-EB-01, WAN-AP1-FB-07, WAN-WGWA-1, WAN-WGWA-2, WAN-WGWA-5, WAN-WGWA-7 and WAN-WGWC-23 were U qualified as not detected above the RL.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WAN-AP1-EB-01	Boron	0.022	J B	0.080	U	3
WAN-AP1-FB-07	Boron	0.024	J B	0.080	U	3
WAN-WGWA-1	Boron	0.026	J B	0.080	U	3
WAN-WGWA-2	Boron	0.023	J B	0.080	U	3
WAN-WGWA-5	Boron	0.030	J B	0.080	U	3
WAN-WGWA-7	Boron	0.033	J B	0.080	U	3

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WAN-WGWC-23	Boron	0.049	J B	0.080	U	3

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

B-laboratory flag indicating the compound was found in both the blank and the 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 WAN-WGWC-9. 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, WAN-AP1-EB-01, was collected with the sample set. Metals were not detected in the equipment blank above the MDLs, with the following exceptions.

Barium and boron were detected at estimated concentrations greater than the MDL and less than the RL. Since the barium and boron concentrations in WAN-AP1-EB-01 were U qualified due to field blank and method blank contamination, respectively, and based on professional and technical judgment, no additional qualifications were applied to the data.

1.7 Field Blank

One field blank, WAN-AP1-FB-07, was collected with the sample set. Metals were not detected in the field blank above the MDLs, with the following exceptions.

Barium (0.016 mg/L) was detected in WAN-AP1-FB-07 at a concentration greater than the RL. Therefore, the estimated concentrations of barium in samples WAN-AP1-EB-01, WAN-WGWA-4, WAN-WGWA-6 and WAN-WGWC-23 were U qualified as not detected above the RL, the concentrations of barium in samples WAN-WGWA-18, WAN-WGWA-3 and WAN-WGWA-7 were U qualified as not detected at the reported concentrations and the concentrations of barium

in samples WAN-AP1-FD-01, WAN-WGWA-1, WAN-WGWA-2, WAN-WGWA-5, WAN-WGWC-15, WAN-WGWC-16, WAN-WGWC-22 and WAN-WGWC-24 were J+ qualified as estimated with a high bias. Since barium was not detected in sample WAN-WGWC-9 and the concentration of barium in sample WAN-WGWC-25 was greater than ten times the RL, no qualifications were applied to these data.

Boron was detected in WAN-AP1-FB-07 at an estimated concentration greater than the MDL and less than the RL. Since boron in the associated samples was qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-AP1-EB-01	Barium	0.0046	J	0.010	U	3
WAN-WGWA-18	Barium	0.013	NA	0.013	U	3
WAN-WGWA-2	Barium	0.022	NA	0.022	J+	3
WAN-WGWA-3	Barium	0.015	NA	0.015	U	3
WAN-WGWA-4	Barium	0.0058	J	0.010	U	3
WAN-WGWA-5	Barium	0.018	NA	0.018	J+	3
WAN-WGWA-6	Barium	0.0078	J	0.010	U	3
WAN-WGWA-7	Barium	0.011	NA	0.011	U	3
WAN-WGWC-15	Barium	0.029	NA	0.029	J+	3
WAN-WGWC-23	Barium	0.0055	J	0.010	U	3
WAN-AP1-FD-01	Barium	0.043	NA	0.043	J+	3
WAN-WGWA-1	Barium	0.050	NA	0.050	J+	3
WAN-WGWC-16	Barium	0.044	NA	0.044	J+	3
WAN-WGWC-22	Barium	0.033	NA	0.033	J+	3
WAN-WGWC-24	Barium	0.036	NA	0.036	J+	3

mg/L-milligram 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, WAN-AP1-FD-01, was collected with the sample set. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicate and the original sample, WAN-WGWC-16, with the following exception.

Iron was detected at a concentration greater than the MDL and less than the RL in WAN-AP1-FD-01 and was not detected in WAN-WGWC-16, resulting in a noncalculable RPD. Therefore, based

on professional and technical judgment, the iron concentration in WAN-AP1-FD-01 was J qualified as estimated and the non-detect iron result in WAN-WGWC-16 was UJ qualified as estimated less than the MDL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/l)	Validation Qualifier	Reason Code
WAN-AP1-FD-01	Iron	0.015	J	NC	0.015	J	7
WAN-WGWC-16	Iron	0.012	U		0.012	UJ	7

mg/L-milligram per liter

J-estimated concentration greater than the MDL and less than the RL

U-not detected at or above the MDL

NC-not calculable

RPD-relative percent difference

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 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.

2.0 MERCURY

The samples were analyzed for mercury by US EPA 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 or not applicable. 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 Deliverable Review

2.1 Overall Assessment

The mercury 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%.

2.2 Holding Time

The holding time for the 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). Two method blanks were reported (batches 764333 and 764336). Mercury was not detected in the method blanks above the MDL.

2.4 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). One sample set specific MS/MSD pair was reported, using sample WAN-WGWA-1. The recovery and RPD results were within the laboratory specified acceptance criteria.

One batch MS/MSD pair was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank, WAN-AP1-EB-01, was collected with the sample set. Mercury was not detected in the equipment blank above the MDL.

2.7 Field Blank

One field blank, WAN-AP1-FB-07, was collected with the sample set. Mercury was not detected in the field blank above the MDL.

2.8 Field Duplicate

One field duplicate sample, WAN-AP1-FD-01, was collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicate and the original sample, WAN-WGWC-16.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID 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 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, total sulfide by SM 4500 S2 F-2011, TDS by SM 2540C and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. 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

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry 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%.

3.1.2 Analysis Anomaly

The laboratory noted that samples WAN-WGWA-1, WAN-WGWC-15, WAN-WGWC-16, WAN-WGWC-25, WAN-WGWC-24, WAN-WGWC-9, WAN-WGWC-23 and WAN-AP1-FD-01 were analyzed with headspace in the sample containers for total sulfide analysis. Since the samples were preserved and based on professional and technical judgment, no qualifications were applied to the data.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding time for the sulfide analysis of a water sample is 7 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 for anions (batches 764277, 764278 and 764279). Three method blanks were reported for total sulfide (batches 764112, 764160 and 764297). Two method blanks were reported for TDS (batches 764123 and 764319). Two method blanks were reported for alkalinity (batches 764461 and 764465). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

Three sample set specific MS/MSD pairs were reported for anions, using samples WAN-WGWA-1, WAN-WGWA-4 and WAN-WGWC-9. One sample set specific MS/MSD pair was reported for sulfide, using sample WAN-WGWC-15. The recovery and RPD results were within the laboratory specified acceptance criteria.

Batch MS/MSD pairs were also reported for anions and total sulfide. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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). LCS/LCS duplicate (LCSD) pairs were reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for alkalinity, using sample WAN-WGWC-24. The RPD results were within the laboratory specified acceptance criteria.

Batch laboratory duplicates were also reported for alkalinity, TDS, anions and total sulfide. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Equipment Blank

One equipment blank, WAN-AP1-EB-01, was collected with the sample set. The wet chemistry parameters were not detected in the equipment blank above the MDLs, with the following exception.

Bicarbonate alkalinity as CaCO₃ (130 mg/L) and total alkalinity as CaCO₃ (130 mg/L) were detected in WAN-AP1-EB-01 at concentrations greater than the RLs. Therefore, the bicarbonate alkalinity and total alkalinity concentrations in sample WAN-WGWC-15 were U qualified as not detected at the reported concentrations. Based on professional and technical judgment, no additional qualifications were applied to the concentrations qualified due to field blank contamination.

Since the bicarbonate alkalinity and total alkalinity concentrations in the associated samples were J+ qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-WGWC-15	Bicarbonate Alkalinity as CaCO ₃	130	NA	130	U	3

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-WGWC-15	Total Alkalinity as CaCO ₃	130	NA	130	U	3

mg/L-milligram per liter

NA-not applicable

3.8 Field Blank

One field blank, WAN-AP1-FB-07, was collected with the sample set. The wet chemistry parameters were not detected in the field blank above the MDLs with the following exception.

Bicarbonate alkalinity as CaCO₃ (110 mg/L) and total alkalinity as CaCO₃ (110 mg/L) were detected in WAN-AP1-FB-07 at concentrations greater than the RLs. Therefore, the bicarbonate alkalinity and total alkalinity concentrations greater than the RLs and less than or equal to the field blank concentrations were U qualified as not detected at the reported concentrations and the alkalinity and total alkalinity concentrations greater than the field blank concentrations and less than ten times the blank concentrations were J+ qualified as estimated with high biases, based on technical and professional judgement. Since the bicarbonate alkalinity and total alkalinity concentrations in sample WAN-WGWC-15 were U qualified due to equipment blank contamination and based on professional and technical judgment, no additional qualifications were applied to sample WAN-WGWC-15.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-AP1-EB-01	Bicarbonate Alkalinity as CaCO ₃	130	NA	130	J+	3
WAN-AP1-EB-01	Total Alkalinity as CaCO ₃	130	NA	130	J+	3
WAN-AP1-FD-01	Bicarbonate Alkalinity as CaCO ₃	27	NA	27	U	3
WAN-AP1-FD-01	Total Alkalinity as CaCO ₃	30	NA	30	U	3
WAN-WGWA-1	Bicarbonate Alkalinity as CaCO ₃	390	NA	390	J+	3
WAN-WGWA-1	Total Alkalinity as CaCO ₃	390	NA	390	J+	3
WAN-WGWA-18	Bicarbonate Alkalinity as CaCO ₃	83	NA	83	U	3
WAN-WGWA-18	Total Alkalinity as CaCO ₃	83	NA	83	U	3
WAN-WGWA-2	Bicarbonate Alkalinity as CaCO ₃	240	NA	240	J+	3
WAN-WGWA-2	Total Alkalinity as CaCO ₃	240	NA	240	J+	3

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Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-WGWA-3	Bicarbonate Alkalinity as CaCO ₃	270	NA	270	J+	3
WAN-WGWA-3	Total Alkalinity as CaCO ₃	270	NA	270	J+	3
WAN-WGWA-4	Bicarbonate Alkalinity as CaCO ₃	110	NA	110	U	3
WAN-WGWA-4	Total Alkalinity as CaCO ₃	110	NA	110	U	3
WAN-WGWA-5	Bicarbonate Alkalinity as CaCO ₃	97	NA	97	U	3
WAN-WGWA-5	Total Alkalinity as CaCO ₃	97	NA	97	U	3
WAN-WGWA-6	Bicarbonate Alkalinity as CaCO ₃	150	NA	150	J+	3
WAN-WGWA-6	Total Alkalinity as CaCO ₃	150	NA	150	J+	3
WAN-WGWA-7	Bicarbonate Alkalinity as CaCO ₃	160	NA	160	J+	3
WAN-WGWA-7	Total Alkalinity as CaCO ₃	160	NA	160	J+	3
WAN-WGWC-15	Bicarbonate Alkalinity as CaCO ₃	130	NA	130	J+	3
WAN-WGWC-15	Total Alkalinity as CaCO ₃	130	NA	130	J+	3
WAN-WGWC-16	Bicarbonate Alkalinity as CaCO ₃	260	NA	260	J+	3
WAN-WGWC-16	Total Alkalinity as CaCO ₃	260	NA	260	J+	3
WAN-WGWC-22	Bicarbonate Alkalinity as CaCO ₃	340	NA	340	J+	3
WAN-WGWC-22	Total Alkalinity as CaCO ₃	340	NA	340	J+	3
WAN-WGWC-23	Bicarbonate Alkalinity as CaCO ₃	82	NA	82	U	3
WAN-WGWC-23	Total Alkalinity as CaCO ₃	82	NA	82	U	3
WAN-WGWC-24	Bicarbonate Alkalinity as CaCO ₃	9.0	NA	9.0	U	3
WAN-WGWC-24	Total Alkalinity as CaCO ₃	9.0	NA	9.0	U	3
WAN-WGWC-25	Bicarbonate Alkalinity as CaCO ₃	8.0	NA	8.0	U	3
WAN-WGWC-25	Total Alkalinity as CaCO ₃	8.0	NA	8.0	U	3
WAN-WGWC-9	Bicarbonate Alkalinity as CaCO ₃	140	NA	140	J+	3

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-WGWC-9	Total Alkalinity as CaCO ₃	140	NA	140	J+	3

mg/L-milligram per liter

NA-not applicable

3.9 Field Duplicate

One field duplicate sample, WAN-API-FD-01, was collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicate and the original sample, WAN-WGWC-16, with the following exceptions.

The RPDs for bicarbonate alkalinity and total alkalinity in the field duplicate pair, WAN-API-FD-01/WAN-WGWC-16, were greater than 20%. Therefore, the bicarbonate alkalinity and total alkalinity concentrations in the field duplicate pair were J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-API-FD-01	Bicarbonate Alkalinity as CaCO ₃	27	NA	162	27	J	7
WAN-WGWC-16	Bicarbonate Alkalinity as CaCO ₃	260	NA		260	J	7
WAN-API-FD-01	Total Alkalinity as CaCO ₃	30	NA	159	30	J	7
WAN-WGWC-16	Total Alkalinity as CaCO ₃	260	NA		260	J	7

mg/L-milligram per liter

NA-not applicable

RPD-relative percent difference

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 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.

**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: April 24, 2023
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-230721-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of fifteen aqueous samples, one field duplicate sample, one equipment blank and one field blank, collected 14-15 February 2023, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

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. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory report, 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, November 2020 (EPA 542-R-20-006); 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 report:

Laboratory ID	Client ID
680-230721-1	WAN-WGWA-1
680-230721-2	WAN-WGWA-2
680-230721-3	WAN-WGWA-3
680-230721-4	WAN-WGWA-4
680-230721-5	WAN-WGWA-5
680-230721-6	WAN-WGWA-6
680-230721-7	WAN-WGWA-7
680-230721-8	WAN-WGWA-18
680-230721-9	WAN-WGWC-15

Laboratory ID	Client ID
680-230721-10	WAN-WGWC-16
680-230721-11	WAN-WGWC-25
680-230721-12	WAN-WGWC-22
680-230721-13	WAN-WGWC-24
680-230721-14	WAN-WGWC-9
680-230721-15	WAN-WGWC-23
680-230721-16	WAN-AP1-FD-01
680-230721-17	WAN-AP1-FB-07
680-230721-18	WAN-AP1-EB-01

The non-radiochemistry data were reported in laboratory report 680-230721-1.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA 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 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 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 601410 and 601821). Two method blanks were reported for the radium-228 data (batches 601415 and 601825). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs), with the following exception.

Radium-228 (0.7066 pCi/L) was detected in the method blank in batch 601415 at a concentration greater than the MDC. Therefore, the radium-228 and combined radium concentrations in samples WAN-WGWA-1, WAN-WGWA-4 and WAN-WGWA-6 were J+ qualified as estimated with high bias and the radium-228 and combined radium concentrations in samples WAN-WGWA-3 and WAN-WGWA-5 were U qualified as not detected at the reported concentrations.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
WAN-WGWA-1	Radium-228	0.746	NA	0.746	J+	3
WAN-WGWA-1	Combined Radium 226 + 228	0.827	NA	0.827	J+	3
WAN-WGWA-3	Radium-228	0.538	NA	0.538	U	3
WAN-WGWA-3	Combined Radium 226 + 228	0.605	NA	0.605	U	3
WAN-WGWA-4	Radium-228	0.920	NA	0.920	J+	3
WAN-WGWA-4	Combined Radium 226 + 228	1.59	NA	1.59	J+	3
WAN-WGWA-5	Radium-228	0.690	NA	0.690	U	3
WAN-WGWA-5	Combined Radium 226 + 228	0.741	NA	0.741	U	3
WAN-WGWA-6	Radium-228	5.18	NA	5.18	J+	3

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
WAN-WGWA-6	Combined Radium 226 + 228	8.54	NA	8.54	J+	3

pCi/L-picocuries per liter

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

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Two batch MS/MSD pairs were reported for radium-226 and two batch MS/MSD pairs were reported for radium-228. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to 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). Two LCSs were reported for radium-226 and two LCSs were reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported with the data.

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

One equipment blank, WAN-AP1-EB-01 was collected with the sample set. Radium-226 and Radium-228 were not detected in the equipment blank above the MDCs.

1.9 Field Blank

One field blank, WAN-AP1-FB-07 was collected with the sample set. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

1.10 Field Duplicate

One field duplicate sample, WAN-AP1-FD-01 was collected with the sample set. Acceptable precision [replicate error ratio (RER) (2σ) < 3] was demonstrated between the field duplicate and the original sample, WAN-WGWC-16.

1.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not 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 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: April 19, 2023
To: Adria Reimer
From: Ashley Wilson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-230804-1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of three water samples collected 17 February 2023, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Savannah, Savannah, Georgia, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Total Sulfide by Standard Method (SM) 4500 S2 F-2011
- Total Dissolved Solids (TDS) by SM 2540C
- Alkalinity by SM 2320B

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. 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 reports:

Laboratory IDs	Client IDs
680-230804-1	WAN-PZ-A2S
680-230804-2	WAN-PZ-A2M

Laboratory IDs	Client IDs
680-230804-3	WAN-PZ-A2D

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The field pH data included in the laboratory report were not validated.

A “U” qualification was added to the nondetect data in the electronic data deliverable (EDD).

1.0 METALS

The samples were analyzed for metals by US EPA 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 or not applicable. 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 764270). Metals were not detected in the method blank above the method detection limits (MDLs), with the following exception.

Boron was detected in the method blank at an estimated concentration greater than the MDL and less than the reporting limit (RL). Since boron was detected at concentrations greater than the RL in the associated samples, no qualifications were applied to the associated data.

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 WAN-PZ-A2M. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of potassium, sodium, boron, and calcium were flagged with 4, to indicate the sample concentration was greater than four times the spike concentration; therefore, the recovery limits were not applicable.

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

An equipment blank was not submitted with the sample set.

1.7 Field Blank

A field blank was not submitted with the sample set.

1.8 Field Duplicate

A field duplicate was not submitted with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 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.

2.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, total sulfide by SM 4500 S2 F-2011, TDS by SM 2540C and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. 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 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%.

2.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding time for the sulfide analysis of a water sample is 7 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). Two method blanks were reported for anions (batches 765703 and 765704). One method blank was reported for total sulfide (batch 764836). One method blank was reported for TDS (batch 764716). Two method blanks were reported for alkalinity (batches 764663 and 764666). 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 total sulfide, using sample WAN-PZ-A2M. The recovery and RPD results were within the laboratory specified acceptance criteria.

Batch MS/MSD pairs were also reported for anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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 sulfide, using sample WAN-PZ-A2S. The RPD result was within the laboratory specified acceptance criteria.

Batch laboratory duplicates were also reported for alkalinity. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.7 Equipment Blank

An equipment blank was not submitted with the sample set.

2.8 Field Blank

A field blank was not submitted with the sample set.

2.9 Field Duplicate

A field duplicate was not submitted with the sample set.

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.

**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: April 21, 2023
To: Adria Reimer
From: Ashley Wilson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-230805-1, Revision 1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twelve water samples, two field duplicate samples, two equipment blanks and two field blanks, collected 16 February 2023, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Savannah, Savannah, Georgia, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Total Sulfide by Standard Method (SM) 4500 S2 F-2011
- Total Dissolved Solids (TDS) by SM 2540C
- Alkalinity by SM 2320B

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. 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 reports:

Laboratory IDs	Client IDs
680-230805-1	WAN-WGWC-8
680-230805-2	WAN-WGWC-10
680-230805-3	WAN-WGWC-11
680-230805-4	WAN-WGWC-12
680-230805-5	WAN-WGWC-13
680-230805-6	WAN-WGWC-14A
680-230805-7	WAN-WGWC-17
680-230805-8	WAN-WGWC-19
680-230805-9	WAN-WGWC-20

Laboratory IDs	Client IDs
680-230805-10	WAN-WGWC-21
680-230805-11	WAN-WGWC-26D
680-230805-12	WAN-WGWC-27
680-230805-13	WAN-API-FD-02
680-230805-14	WAN-API-FD-03
680-230805-15	WAN-API-FB-08
680-230805-16	WAN-API-FB-09
680-230805-17	WAN-API-EB-02
680-230805-18	WAN-API-EB-03

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The field pH data included in the laboratory report were not validated.

The laboratory report was revised on 3/6/2023 to correct the pH transcription error for WAN-WGWC-17 and chromium results to USEPA Method 6020B for sample WAN-WGWC-13. The laboratory report was identified as 680-230805-1, Revision 1.

A “U” qualification was added to the nondetect data in the electronic data deliverable (EDD).

1.0 METALS

The samples were analyzed for metals by US EPA 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 or not applicable. 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). Three method blanks were reported (batches 764270, 764281 and 768711). Metals were not detected in the method blanks above the method detection limits (MDLs), with the following exception.

Boron was detected in the method blank in batch 764270 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Therefore, the estimated concentration of boron in sample WAN-WGWC-14A was U qualified as not detected above the RL.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WAN-WGWC-14A	Boron	0.030	J B	0.080	U	3

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

B-laboratory flag indicating the compound was found in both the blank and the 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 WAN-WGWC-27. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exception.

The MS recoveries of calcium and sodium were low and outside of laboratory specified acceptance criteria. The MS recovery and RPD of iron were high and outside of laboratory specified acceptance criteria. Therefore, the concentrations of calcium and sodium in sample WAN-WGWC-27 were J- qualified as estimated with a low bias and the concentration of iron was J qualified as estimated.

Two batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-WGWC-27	Calcium	19	F1	19	J-	4
WAN-WGWC-27	Sodium	15	F1	15	J-	4
WAN-WGWC-27	Iron	0.42	F1 F2	0.42	J+	4

mg/L- milligram per liter

F1- laboratory flag indicating the MS and/or MSD was outside acceptance criteria

F2- laboratory flag indicating the RPD was outside 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). Three LCSs were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

1.6 **Equipment Blank**

Two equipment blanks, WAN-AP1-EB-02 and WAN-AP1-EB-03, were collected with the sample set. Metals were not detected in the equipment blanks above the MDLs.

1.7 **Field Blank**

Two field blanks, WAN-AP1-FB-08 and WAN-AP1-FB-09, were collected with the sample set. Metals were not detected in the field blanks above the MDLs, with the following exceptions.

Calcium and potassium were detected in WAN-AP1-FB-08 at estimated concentrations greater than the MDLs and less than the RLs and sodium (0.60 mg/L) was detected at a concentration greater than the RL. Therefore, the concentrations of sodium in samples WAN-WGWC-10, WAN-WGWC-11, WAN-WGWC-12 and WAN-WGWC-14A were J+ qualified as estimated with high bias. Since calcium and potassium were either not detected or detected at concentrations greater than the RLs, no qualifications were applied to the calcium and potassium data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-WGWC-10	Sodium	3.6	NA	3.6	J+	3
WAN-WGWC-11	Sodium	3.4	NA	3.4	J+	3
WAN-WGWC-12	Sodium	5.8	NA	5.8	J+	3
WAN-WGWC-14A	Sodium	4.0	NA	4.0	J+	3

mg/L-milligram per liter

NA-not applicable

1.8 Field Duplicate

Two field duplicate samples, WAN-AP1-FD-02 and WAN-AP1-FD-03, were collected with the sample set. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WAN-WGWC-26D and WAN-WGWC-8, respectively, with the following exception.

Beryllium was detected at a concentration greater than the MDL and less than the RL in WAN-AP1-FD-03 and was detected at a concentration greater than the RL in WAN-WGWC-8, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment, the beryllium concentrations in WAN-AP1-FD-01 and WAN-WGWC-8 were J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/l)	Laboratory Flag	RPD	Validation Result (mg/l)	Validation Qualifier	Reason Code
WAN-AP1-FD-03	Beryllium	0.0024	J	NC	0.0024	J	7
WAN-WGWC-8	Beryllium	0.0025	NA		0.0025	J	7

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

NA-not applicable

NC-not calculable

RPD-relative percent difference

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 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.

2.0 MERCURY

The samples were analyzed for mercury by US EPA 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 or not applicable. 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 Deliverable Review

2.1 Overall Assessment

The mercury 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%.

2.2 Holding Time

The holding time for the 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). Two method blanks were reported (batches 764334 and 764336). Mercury was not detected in the method blanks above the MDL.

2.4 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). One sample set specific MS/MSD pair was reported, using sample WAN-WGWC-27. The recovery and RPD results were within the laboratory specified acceptance criteria.

One batch MS/MSD pair was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

Two equipment blanks, WAN-AP1-EB-02 and WAN-AP1-EB-03, were collected with the sample set. Mercury was not detected in the equipment blanks above the MDL.

2.7 Field Blank

Two field blanks, WAN-AP1-FB-08 and WAN-AP1-FB-09, were collected with the sample set. Mercury was not detected in the field blanks above the MDL.

2.8 Field Duplicate

Two field duplicate samples, WAN-AP1-FD-02 and WAN-AP1-FD-03, were collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicates and the original samples, WAN-WGWC-26D and WAN-WGWC-8, respectively.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID 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 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, total sulfide by SM 4500 S2 F-2011, TDS by SM 2540C and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. 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

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry 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%.

3.1.2 Analysis Anomaly

The laboratory noted that samples WAN-WGWC-8, WAN-WGWC-11, WAN-WGWC-12, WAN-WGWC-19, WAN-WGWC-20, WAN-WGWC-21, WAN-WGWC-26D, WAN-WGWC-27, WAN-AP1-FD-02, WAN-AP1-FD-03 and WAN-AP1-FB-09 were analyzed with headspace

in the sample containers for total sulfide analysis. Since the samples were preserved and based on professional and technical judgment, no qualifications were applied to the data.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding time for the sulfide analysis of a water sample is 7 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). Four method blanks were reported for anions (batches 764879, 765703, 765704 and 765879). Two method blanks were reported for total sulfide (batches 764636 and 764693). Two method blanks were reported for TDS (batches 764476 and 764716). Two method blanks were reported for alkalinity (batches 764663 and 764666). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

Two sample set specific MS/MSD pairs were reported for anions, using samples WAN-WGWC-10 and WAN-WGWC-27. One sample set specific MS/MSD pair was reported for sulfide, using sample WAN-WGWC-19. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of chloride in the MS/MSD pair using sample WAN-WGWC-27 were high and outside of laboratory specified acceptance criteria. Therefore, the detected concentration of chloride in sample WAN-WGWC-27 was J+ qualified as estimated with a high bias.

Batch MS/MSD pairs were also reported for anions and total sulfide. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-WGWC-27	Chloride	22	F1	22	J+	4

mg/L- milligram per liter

F1- laboratory flag indicating the MS and/or MSD was outside 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). An LCS/LCSD pair was reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported for alkalinity, using samples WAN-WGWC-8 and WAN-API-FD-03. One sample set specific laboratory duplicate was reported for TDS using sample WAN-WGWC-26D. One sample set specific laboratory duplicate was reported for total sulfide using sample WAN-WGWC-13. The RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The RPDs for bicarbonate alkalinity and total alkalinity in laboratory duplicate using sample WAN-WGWC-8 were high and outside of laboratory specified acceptance criteria. Since the bicarbonate alkalinity and total alkalinity concentrations in the sample and laboratory duplicate were less than five times the RL and the absolute difference between the two concentrations were less than the RL, no qualifications were applied to the data.

Batch laboratory duplicates were also reported for TDS, anions and total sulfide. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Equipment Blank

Two equipment blanks, WAN-AP1-EB-02 and WAN-AP1-EB-03, were collected with the sample set. The wet chemistry parameters were not detected in the equipment blanks above the MDLs.

3.8 Field Blank

Two field blanks, WAN-AP1-FB-08 and WAN-AP1-FB-09, were collected with the sample set. The wet chemistry parameters were not detected in the field blanks above the MDLs.

3.9 Field Duplicate

Two field duplicate samples, WAN-AP1-FD-02 and WAN-AP1-FD-03, were collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicates and the original samples, WAN-WGWC-26D and WAN-WGWC-8, respectively, with the following exceptions.

The RPDs for bicarbonate alkalinity and total alkalinity in the field duplicate pair, WAN-AP1-FD-02/WAN-WGWC-26D, were greater than 20%. Therefore, the bicarbonate alkalinity and total alkalinity concentrations in the field duplicate pair were J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/l)	Laboratory Flag	RPD	Validation Result (mg/l)	Validation Qualifier	Reason Code
WAN-AP1-FD-02	Bicarbonate Alkalinity as CaCO3	39	NA	60	39	J	7
WAN-WGWC-26D	Bicarbonate Alkalinity as CaCO3	21	NA		21	J	7
WAN-AP1-FD-02	Total Alkalinity as CaCO3	39	NA	60	39	J	7
WAN-WGWC-26D	Total Alkalinity as CaCO3	21	NA		21	J	7

mg/L-milligram per liter

NA-not applicable

RPD-relative percent difference

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 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.

**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: April 24, 2023
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-230805-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twelve aqueous samples, two field duplicate samples, two equipment blanks and two field blanks, collected 16 February 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

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. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory report, 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, November 2020 (EPA 542-R-20-006); 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 report:

Laboratory ID	Client ID
680-230805-1	WAN-WGWC-8
680-230805-2	WAN-WGWC-10
680-230805-3	WAN-WGWC-11
680-230805-4	WAN-WGWC-12
680-230805-5	WAN-WGWC-13
680-230805-6	WAN-WGWC-14A
680-230805-7	WAN-WGWC-17
680-230805-8	WAN-WGWC-19
680-230805-9	WAN-WGWC-20

Laboratory ID	Client ID
680-230805-10	WAN-WGWC-21
680-230805-11	WAN-WGWC-26D
680-230805-12	WAN-WGWC-27
680-230805-13	WAN-AP1-FD-02
680-230805-14	WAN-AP1-FD-03
680-230805-15	WAN-AP1-FB-08
680-230805-16	WAN-AP1-FB-09
680-230805-17	WAN-AP1-EB-02
680-230805-18	WAN-AP1-EB-03

The non-radiochemistry data was reported in laboratory report 680-230805-1.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA 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 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 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). One method blank was reported for the radium-226 data (batch 602054). One method blank was reported for the radium-228 data (batch 602055). 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/LCS duplicate (LCSD) pair was reported for radium-226 and one LCS/LCSD pair was reported for radium-228. The recovery and replicate error ratio (RER) results were within the laboratory specified acceptance criteria, with the following exception.

The recoveries of radium-228 in the LCS/LCSD pair in batch 602055 were high and outside of the laboratory specified acceptance criteria. Therefore, the combined radium concentration in sample WAN-WGWC-20, the radium-228 concentration in sample WAN-AP1-EB-02 and the radium-228 and combined radium concentrations in samples WAN-AP1-FD-02, WAN-AP1-FD-03, WAN-WGWC-26D, WAN-WGWC-27 and WAN-WGWC-8 were J+ qualified as estimated with high bias. Since the radium-228 concentration in sample WAN-WGWC-20 was U qualified as non-detect due to equipment blank contamination and the combined radium concentration in sample WAN-AP1-EB-02 was less than the MDC and based on professional and technical judgment, no additional qualifications were applied to the data.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
WAN-AP1-EB-03	Radium-228	0.64	NA	0.64	J+	5
WAN-AP1-FD-02	Radium-228	3.27	NA	3.27	J+	5
WAN-AP1-FD-02	Combined Radium 226 + 228	5.89	NA	5.89	J+	5
WAN-AP1-FD-03	Radium-228	2.53	NA	2.53	J+	5
WAN-AP1-FD-03	Combined Radium 226 + 228	3.05	NA	3.05	J+	5
WAN-WGWC-20	Combined Radium 226 + 228	0.853	NA	0.853	J+	5
WAN-WGWC-26D	Radium-228	2.94	NA	2.94	J+	5
WAN-WGWC-26D	Combined Radium 226 + 228	5.49	NA	5.49	J+	5
WAN-WGWC-27	Radium-228	1.47	NA	1.47	J+	5
WAN-WGWC-27	Combined Radium 226 + 228	2.16	NA	2.16	J+	5
WAN-WGWC-8	Radium-228	2.59	NA	2.59	J+	5
WAN-WGWC-8	Combined Radium 226 + 228	3.04	NA	3.04	J+	5

pCi/L-picocuries per liter

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

1.6 Laboratory Duplicate

Laboratory duplicates were not reported with the data.

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, WAN-AP1-EB-02 and WAN-AP1-EB-03 were collected with the sample set. Radium-226 and Radium-228 were not detected in the equipment blanks above the MDCs, with the following exception.

Radium-228 was detected in WAN-AP1-EB-03 at a concentration greater than the MDC. Therefore, the radium-228 concentration in sample WAN-WGWC-20 was U qualified as not detected at the reported concentration and the combined radium concentration in sample WAN-WGWC-20 and the radium-228 and combined radium concentrations in samples WAN-AP1-FD-

02, WAN-AP1-FD-03, WAN-WGWC-26D, WAN-WGWC-27 and WAN-WGWC-8 were J+ qualified as estimated with high bias.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
WAN-AP1-FD-02	Radium-228	3.27	NA	3.27	J+	3
WAN-AP1-FD-02	Combined Radium 226 + 228	5.89	NA	5.89	J+	3
WAN-AP1-FD-03	Radium-228	2.53	NA	2.53	J+	3
WAN-AP1-FD-03	Combined Radium 226 + 228	3.05	NA	3.05	J+	3
WAN-WGWC-20	Radium-228	0.639	NA	0.639	U	3
WAN-WGWC-20	Combined Radium 226 + 228	0.853	NA	0.853	J+	3
WAN-WGWC-26D	Radium-228	2.94	NA	2.94	J+	3
WAN-WGWC-26D	Combined Radium 226 + 228	5.49	NA	5.49	J+	3
WAN-WGWC-27	Radium-228	1.47	NA	1.47	J+	3
WAN-WGWC-27	Combined Radium 226 + 228	2.16	NA	2.16	J+	3
WAN-WGWC-8	Radium-228	2.59	NA	2.59	J+	3
WAN-WGWC-8	Combined Radium 226 + 228	3.04	NA	3.04	J+	3

pCi/L-picocuries per liter

NA-not applicable

1.9 Field Blank

Two field blanks, WAN-AP1-FB-08 and WAN-AP1-FB-09 were collected with the sample set. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

1.10 Field Duplicate

Two field duplicate samples, WAN-AP1-FD-02 and WAN-AP1-FD-03, were collected with the sample set. Acceptable precision ($RER (2\sigma) < 3$) was demonstrated between the field duplicates and the original samples, WAN-WGWC-26D and WAN-WGWC-8, respectively.

1.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not 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 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: 8 January 2024
To: Courtney Collins
From: Derek Yeadon
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-239031-1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of three water samples, collected 11 August 2023, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Savannah Savannah, Georgia, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Total Dissolved Solids (TDS) by 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 are usable for supporting project objectives.

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 reports:

Laboratory IDs	Client IDs
680-239031-1	WAN-WGWC-20
680-239031-2	WAN-WGWC-26D

Laboratory IDs	Client IDs
680-239031-3	WAN-WGWC-27

The laboratory reported results for the analytical method(s) requested for each sample on the chain of custody (COC).

There was a time lapse for the second sample transfer times. The second sample relinquishing was documented as 08/11/23, 06:00 and the second sample receiving was documented as 08/12/23, 0800, but no courier was listed. The lab provided sample login data for courier delivery.

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

1.0 METALS

The samples were analyzed for metals by US EPA 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 or not applicable. 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
- ✓ 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 793258). Metals were not detected in the method blank above the method detection limits (MDLs), with the following exception.

Chromium was detected in the method blank at an estimated concentration greater than the MDL and less than the reporting limit (RL). Since chromium was not detected in any of the associated samples, no qualifications were applied to the data.

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 batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample

Laboratory control samples (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 and results were within the laboratory specified acceptance criteria.

1.6 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.7 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.

2.0 MERCURY

The samples were analyzed for mercury by US EPA 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 or not applicable. 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
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 **Overall Assessment**

The mercury 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%.

2.2 **Holding Time**

The holding time for the 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). One method blank was reported (batch 793887). Mercury was not detected in the method blank above the MDL.

2.4 **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).

One batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.7 Electronic Data Deliverable Review

Results and sample ID 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 WET CHEMISTRY

The samples were analyzed for anions by US EPA 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 or not applicable. 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
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry 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%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 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). One method blank was reported for anions (batch 793810). Two method blanks were reported for TDS (batches 793747 and 794055). The wet chemistry parameters were not detected in the method blanks above the MDLs.

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).

One batch MS/MSD pair was reported for anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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). One LCS/LCS duplicate (LCSD) pair was reported for anions, and two LCS/LCSD pairs were reported for TDS. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS using sample WAN-WGWC-26D. The RPD results were within the laboratory specified acceptance criteria, with the following exception.

The RPD for TDS in laboratory duplicate using sample WAN-WGWC-26D was high and outside of laboratory specified acceptance criteria. Therefore, based on professional and technical judgment, the TDS result in sample WAN-WGWC-26D was J qualified as estimated.

One batch laboratory duplicate was also reported for TDS. Since this was batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WAN-WGWC-26D	TDS	950	NA	10.0	950	J	12

mg/L-milligrams per liter

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

3.7 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.8 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.

**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: 10 January 2024
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-239031-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of three aqueous samples collected 11 August 2023, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

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 are usable for supporting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory report, 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, November 2020 (EPA 542-R-20-006); 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 report:

Laboratory ID	Client ID
680-239031-1	WAN-WGWC-20
680-239031-2	WAN-WGWC-26D

Laboratory ID	Client ID
680-239031-3	WAN-WGWC-27

The non-radiochemistry data were reported in laboratory report 680-239031-1.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA 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 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 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). One method blank was reported for the radium-226 data (batch 624325). One method blank was reported for the radium-228 data (batch 624326). 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.

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 for radium-226 and one LCS was reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Batch laboratory duplicates were reported for radium-226 and radium-228. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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

Equipment blanks were not collected with the sample set.

1.9 Field Blank

Field blanks were not collected with the sample set.

1.10 Field Duplicate

Field duplicates were not collected with the sample set.

1.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not 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 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: 8 January 2024
To: Courtney Collins
From: Derek Yeadon
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-239236-1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eleven water samples, one field duplicate, and one field blank, collected 14-15 August 2023, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Savannah Georgia, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Total Dissolved Solids (TDS) by 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. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with 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 reports:

Laboratory IDs	Client IDs
680-239236-1	WAN-WGWA-1
680-239236-2	WAN-WGWA-2
680-239236-3	WAN-WGWA-3
680-239236-4	WAN-WGWA-4
680-239236-5	WAN-WGWA-5
680-239236-6	WAN-WGWA-6
680-239236-7	WAN-WGWA-7

Laboratory IDs	Client IDs
680-239236-8	WAN-WGWA-18
680-239236-9	WAN-WGWC-8
680-239236-10	WAN-WGWC-16
680-239236-11	WAN-WGWC-25
680-239236-12	WAN-API-FD-02
680-239236-13	WAN-API-FB-07

The laboratory reported results for the analytical method(s) requested for each sample on the chain of custody (COC).

The sample collection time was not listed on the COC for the field duplicate, WAN-API-FD-02. The laboratory logged the sample in with the collection time of 00:00.

There was a time lapse for the second sample transfer times. The second sample relinquishing was documented as 08/16/23, 15:20, and the second sample receiving was documented as 08/17/23, 09:00, but no courier was listed. The lab confirmed a courier service was used.

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

1.0 METALS

The samples were analyzed for metals by US EPA 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 or not applicable. 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
- ✓ 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 793975). 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 batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to 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 was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Field Blank

One field blank, WAN-AP1-FB-07, 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 WAN-AP1-FB-08 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Since boron was either not detected or detected at concentrations greater than 5 times that of the field blank and based on professional and technical judgment, no qualifications were applied to the data

1.7 Field Duplicate

One field duplicate was collected with the sample set, WAN-AP1-FD-02. Acceptable precision [relative percent difference (RPD) $\leq 30\%$] was demonstrated between the field duplicate and the original sample WAN-WGWC-16.

1.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.9 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.

2.0 MERCURY

The samples were analyzed for mercury by US EPA 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 or not applicable. 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
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury 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%.

2.2 Holding Time

The holding time for the 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). One method blank was reported (batch 794320). Mercury was not detected in the method blank above the MDL.

2.4 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).

One batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Field Blank

One field blank, WAN-AP1-FB-07, was collected with the sample set. Mercury was not detected in the field blank above the MDL.

2.7 Field Duplicate

One field duplicate was collected with the sample set, WAN-AP1-FD-02. Acceptable precision (RPD \leq 30%) was demonstrated between the field duplicate and the original sample WAN-WGWC-16.

2.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.9 Electronic Data Deliverable Review

Results and sample ID 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 WET CHEMISTRY

The samples were analyzed for anions by US EPA 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 or not applicable. 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
- ⊗ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry 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%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 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). Two method blanks were reported for anions (batches 794490 and 794491). Two method blanks were reported for TDS (batches 794055 and 794147). The wet chemistry parameters were not detected in the method blanks above the MDLs.

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). Two sample set specific MS/MSD pairs were reported, using samples WAN-WGWA-1 and WAN-WGWA-5. 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). Two LCS/LCS duplicate (LCSD) pairs were reported for anions, and two LCS/LCSD pairs were reported for TDS. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS using sample WAN-WGWC-8. The RPD results were within the laboratory specified acceptance criteria.

One batch laboratory duplicate was also reported for TDS. Since this was batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Field Blank

One field blank, WAN-AP1-FB-07, was collected with the sample set. The wet chemistry parameters were not detected in the field blank above the MDL, with the following exceptions.

Chloride was detected in WAN-AP1-FB-08 at an estimated concentration greater than the MDL and less than the RL. Since chloride was detected in all samples at concentrations greater than 5

times that of the field blank and based on professional and technical judgment, no qualifications were applied to the data.

Fluoride was detected in WAN-AP1-FB-08 at a concentration greater than the RL (0.4 mg/L). Therefore, the estimated fluoride concentrations in the associated samples were U qualified as not detected at the RL and the fluoride concentrations in the associated samples greater than the RL and less than the equipment blank concentration were U qualified as not detected at the reported concentration.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WAN-AP1-FD-02	Fluoride	0.66	J	0.10	U	3
WAN-WGWA-2	Fluoride	0.061	J	0.10	U	3
WAN-WGWA-3	Fluoride	0.040	J	0.10	U	3
WAN-WGWA-4	Fluoride	0.14	NA	0.14	U	3
WAN-WGWA-6	Fluoride	0.12	NA	0.12	U	3
WAN-WGWA-18	Fluoride	0.051	J	0.10	U	3
WAN-WGWC-8	Fluoride	0.15	J	0.10	U	3
WAN-WGWC-16	Fluoride	0.065	J	0.10	U	3
WAN-WGWC-25	Fluoride	0.049	J	0.10	U	3

mg/L-milligrams per liter

NA-not applicable

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

* 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

One field duplicate was collected with the sample set, WAN-AP1-FD-02. Acceptable precision (RPD ≤ 30%) was demonstrated between the field duplicate and the original sample WAN-WGWC-16.

3.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not 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.

**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: 9 January 2024
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-239236-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eleven aqueous samples, one field duplicate sample and one field blank, collected 14-15 February 2023, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

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 are usable for supporting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory report, 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, November 2020 (EPA 542-R-20-006); 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 report:

Laboratory ID	Client ID
680-239236-1	WAN-WGWA-1
680-239236-2	WAN-WGWA-2
680-239236-3	WAN-WGWA-3
680-239236-4	WAN-WGWA-4
680-239236-5	WAN-WGWA-5
680-239236-6	WAN-WGWA-6
680-239236-7	WAN-WGWA-7

Laboratory ID	Client ID
680-239236-8	WAN-WGWA-18
680-239236-9	WAN-WGWC-8
680-239236-10	WAN-WGWC-16
680-239236-11	WAN-WGWC-25
680-239236-12	WAN-API-FD-02
680-239236-13	WAN-API-FB-07

The non-radiochemistry data were reported in laboratory report 680-239236-1.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA 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 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 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 625145 and 625148). Two method blanks were reported for the radium-228 data (batches 625147 and 625149). 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.

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 and one LCS and one LCS/LCS pair were reported for radium-228. The recovery and replicate error ratio (RER) results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Batch laboratory duplicates were reported for radium-226 and radium-228. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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

One equipment blank, WAN-AP1-EB-01 was collected with the sample set. Radium-226 and Radium-228 were not detected in the equipment blank above the MDCs.

1.9 Field Blank

One field blank, WAN-AP1-FB-07 was collected with the sample set. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

1.10 Field Duplicate

One field duplicate sample, WAN-AP1-FD-02 was collected with the sample set. Acceptable precision ($RER (2\sigma) < 3$) was demonstrated between the field duplicate and the original sample, WAN-WGWC-16.

1.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

The radium-228 MDC for sample WAN-WGWA-4 did not meet the requested reporting limit (RL).

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 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: 8 January, 2024
To: Courtney Collins
From: Derek Yeadon
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-239333-1**

SITE: Plant Wansley Ash Pond – Risk Evaluation

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of three water samples, collected 16 August 2023, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Savannah, Georgia, for the following analytical tests:

- Total and Dissolved Metals (Lithium) by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B

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 are usable for supporting project objectives.

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 reports:

Laboratory IDs	Client IDs
680-239333-1	WAN-WCR(+0.1)
680-239333-2	WAN-WCR(+1.9)

Laboratory IDs	Client IDs
680-239333-3	WAN-WCR(-0.6)

The laboratory reported results for the analytical method(s) requested for each sample on the chain of custody (COC).

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.

There was a time lapse for the first sample transfer times. The first sample relinquishing was documented as 8/18/23, 09:32 and the first sample receiving was documented as 8/18/23, 09:38.

The second received by time was documented as a time earlier than the relinquished by time for the second sample transfer times on the COC. The second sample relinquishing was documented as 8/18/23, 09:32, and the second sample receiving was documented as 8/19/23, 09:00.

There was a time lapse for the second sample transfer times. The second sample relinquishing was documented as 08/16/23, 15:20, and the second sample receiving was documented as 08/17/23, 09:00, but no courier was listed. The lab confirmed a courier service was used.

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

1.0 LITHIUM

The samples were analyzed for lithium by US EPA 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 or not applicable. 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
- ✓ Total and Dissolved Lithium Assessment
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The lithium 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 lithium 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 for total lithium (batch 794237) and one method blank was reported for dissolved lithium (batch 794425). Lithium was not detected in the method blank above the method detection limit (MDL).

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 WAN-WCR(-0.6). The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria

One batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to 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). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Total and Dissolved Lithium Assessment

The samples were analyzed for total and dissolved lithium. The samples had total lithium concentrations greater than the dissolved lithium concentrations or for dissolved lithium concentrations greater than the total lithium concentration the RPD was $\leq 30\%$.

1.7 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.8 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.

**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: 8 January 2024
To: Courtney Collins
From: Derek Yeadon
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-239334-1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of fourteen water samples, two field duplicate samples, two field blanks, and three equipment blanks, collected 16-17 August 2023, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Savannah, Georgia, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Total Dissolved Solids (TDS) by 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. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with 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 reports:

Laboratory IDs	Client IDs
680-239334-1	WAN-WGWC-9
680-239334-2	WAN-WGWC-10
680-239334-3	WAN-WGWC-11
680-239334-4	WAN-WGWC-12
680-239334-5	WAN-WGWC-13
680-239334-6	WAN-WGWC-14A
680-239334-7	WAN-WGWC-15
680-239334-8	WAN-WGWC-17
680-239334-9	WAN-WGWC-19
680-239334-10	WAN-WGWC-21
680-239334-11	WAN-WGWC-22

Laboratory IDs	Client IDs
680-239334-12	WAN-WGWC-23
680-239334-13	WAN-WGWC-24
680-239334-14	WAN-PZ-26D
680-239334-15	WAN-API-FD-01
680-239334-16	WAN-API-FD-03
680-239334-17	WAN-API-FB-08
680-239334-18	WAN-API-FB-09
680-239334-19	WAN-API-EB-01
680-239334-20	WAN-API-EB-02
680-239334-21	WAN-API-EB-03

The laboratory reported results for the analytical method(s) requested for each sample on the chain of custody (COC).

There was a time lapse for the second sample transfer times. The second sample relinquishing was documented as 08/18/23, 09:32 and the second sample receiving was documented as 08/19/23, 09:00, but no courier was listed. The lab provided sample login data for courier delivery.

There were no collection times documented on the COC for the field duplicates. The laboratory assigned a collection time of 00:00 for both samples.

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 samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

1.0 METALS

The samples were analyzed for metals by US EPA 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 or not applicable. 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
- ✓ Field Blank
- ⊗ Field Duplicate
- ⊗ Equipment Blank
- ✓ 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). Two method blanks were reported (batches 794238 and 794239). Metals were not detected in the method blanks above the method detection limits (MDLs), with the following exception.

Chromium was detected in the method blank in batch 794239 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Since chromium was not detected in any of the associated sample, no qualifications were applied to the data.

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). Two sample set specific MS/MSD pairs were reported, using samples WAN-WGWC-9 and WAN-AP1-EB-03. The recovery and relative percent difference

(RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both the recoveries of boron and calcium in the MS using sample WAN-WGWC-9 were low and outside of the method specified acceptance criteria. Therefore, the boron and calcium concentrations in sample WAN-WGWC-9 were J- qualified as estimated with low bias.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WAN-WGWC-9	Boron	0.6	F1	0.6	J-	4
WAN-WGWC-9	Calcium	11	F1	11	J-	4

mg/L-milligrams per liter

F1-laboratory flag indicating the MS and/or MSD recoveries were outside the laboratory specified acceptance criteria.

* 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

1.5 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 LCS were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Field Blank

Two field blanks, WAN-API-FB-08 and WAN-API-FB-09, were collected with the sample set. Metals were not detected in the field blanks above the MDLs.

1.7 Field Duplicate

Two field duplicates were collected with the sample set, WAN-API-FD-01 and WAN-API-FD-03. Acceptable precision (RPD \leq 30%) was demonstrated between the field duplicate and the original samples (WAN-WGWC-19 and WAN-WGWC-24, respectively) with the following exception.

Lithium was detected in sample WAN-WGWC-24 at an estimated concentration greater than the MDL and less than the RL and not detected in the field duplicate, resulting in a noncalculable RPD between the results. Therefore, based on professional and technical judgment, the concentration of lithium was J qualified as estimated and the nondetect result was UJ qualified as estimated less than the MDL in the field duplicate pair.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-WGWC-24	Lithium	0.0022	J	NC	0.0022	J	7
WAN-AP1-FD-03	Lithium	0.0020	U		0.0020	UJ	7

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

U-not detected at or above the MDL

NA-not applicable

NC-non-calculable

1.8 Equipment Blank

Three equipment blanks, WAN-AP1-EB-01, WAN-AP1-EB-02, and WAN-AP1-EB-03, were collected with the sample set. Metals were not detected in the equipment blanks above the MDLs, with the following exceptions.

Barium was detected in WAN-AP1-EB-01 and WAN-AP1-EB-02 at estimated concentrations greater than the MDL and less than the RL. Therefore, the estimated concentrations of barium in samples WAN-WGWC-19, WAN-AP1-FD-01 and WAN-WGWC-21 were U qualified as not detected at the RL and the concentrations of barium in samples WAN-WGWC-17 and WAN-WGWC-12 were J+ qualified as estimated with high biases. Since barium was either not detected or detected at concentrations greater than five times that of the equipment blank in all other samples and based on professional and technical judgment, no qualifications were applied to the data.

Calcium was detected in WAN-AP1-EB-02 at an estimated concentration greater than the MDL and less than the RL. Since calcium was either not detected or detected at concentrations greater than four times that of the equipment blank in all associated samples, no qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-WGWC-12	Barium	0.017	NA	0.017	J+	3
WAN-WGWC-17	Barium	0.012	NA	0.012	J+	3
WAN-WGWC-19	Barium	0.0014	J	0.010	U	3
WAN-API-FD-01	Barium	0.0012	J	0.010	U	3
WAN-WGWC-21	Barium	0.0044	J	0.010	U	3
WAN-WGWC-22	Barium	0.021	NA	0.021	J+	3
WAN-WGWC-23	Barium	0.010	NA	0.010	J+	3

mg/L-milligrams per liter

NA-not applicable

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 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.

2.0 MERCURY

The samples were analyzed for mercury by US EPA 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 or not applicable. 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
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury 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%.

2.2 Holding Time

The holding time for the 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 794591, 794765, and 795533). Mercury was not detected in the method blanks above the MDL.

2.4 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 batch MS/MSD pairs were reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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 Field Blank

Two field blanks, WAN-AP1-FB-08 and WAN-AP1-FB-09, were collected with the sample set. Mercury was not detected in the field blanks above the MDLs.

2.7 Field Duplicate

Two field duplicates were collected with the sample set, WAN-AP1-FD-01 and WAN-AP1-FD-03. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicate and the original samples (WAN-WGWC-19 and WAN-WGWC-24, respectively).

2.8 Equipment Blank

Three equipment blanks, WAN-AP1-EB-01, WAN-AP1-EB-02, and WAN-AP1-EB-03, were collected with the sample set. Mercury was not detected in the equipment blanks above the MDLs.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID 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 WET CHEMISTRY

The samples were analyzed for anions by US EPA 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 or not applicable. 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
- ⊗ Field Blank
- ✓ Field Duplicate

- ⊗ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry 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%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses with the following exceptions.

Samples WAN-API-FD-01, WAN-WGWC-11, WAN-WGWC-12, WAN-WGWC-14A, and WAN-WGWC-19 were analyzed for TDS outside of the specified holding time. Therefore, the TDS results for samples WAN-API-FD-01, WAN-WGWC-11, WAN-WGWC-12, WAN-WGWC-14A, and WAN-WGWC-19 were J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-API-FD-01	TDS	110	H	110	J	2
WAN-WGWC-11	TDS	33	H	33	J	2
WAN-WGWC-12	TDS	92	H	92	J	2
WAN-WGWC-14A	TDS	29	H	29	J	2
WAN-WGWC-19	TDS	100	H	100	J	2

mg/L-milligrams per liter

H-laboratory flag indicating the sample was prepped or analyzed beyond the specified holding time

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 for anions (batches 794492, 794720 and 794721). Two method blanks were reported for TDS (batches 794541 and 794944). The wet chemistry parameters were not detected in the method blanks above the MDLs.

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). Two sample set specific MS/MSD pairs were reported, using samples WAN-WGWC-9 and WAN-WGWC-22. The recovery and RPD results were within the laboratory specified acceptance criteria.

Two batch MS/MSD pairs were also reported for anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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 LCS/LCS duplicate (LCSD) pairs were reported for anions, and two LCS/LCSD pairs were reported for TDS. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported for TDS using samples WAN-WGWC-15 and WAN-WGWC-21. The RPD results were within the laboratory specified acceptance criteria, with the following exception.

The RPD for TDS in the laboratory duplicate using sample WAN-WGWC-15 was high and outside of laboratory specified acceptance criteria. Therefore, based on professional and technical judgment, the TDS result in sample WAN-WGWC-15 was J qualified as estimated.

One batch laboratory duplicate was also reported for TDS. Since this was batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-WGWC-15	TDS	150	NA	12.8	150	J	7

mg/L-milligrams per liter

NA-not applicable

3.7 Field Blank

Two field blanks, WAN-API-FB-08 and WAN-API-FB-09, were collected with the sample set. The wet chemistry parameters were not detected in the field blanks above the MDLs with the following exceptions.

Fluoride was detected in WAN-API-FB-08 and WAN-API-FB-09 at concentrations greater than the RL. Therefore, the estimated fluoride concentrations in the associated samples were U qualified as not detected at the RL, the fluoride concentrations in the associated samples greater than the RL and less than the field blank concentrations were U qualified as not detected at the reported concentrations and the fluoride concentrations in the associated samples greater than the RL and less than ten times the field blank concentrations were J+ qualified as estimated with high bias.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-API-EB-01	Fluoride	0.37	NA	0.37	U	3
WAN-API-EB-02	Fluoride	0.5	NA	0.5	J+	3
WAN-API-EB-03	Fluoride	0.58	NA	0.58	J+	3
WAN-API-FB-08	Fluoride	0.37	NA	0.37	J	3
WAN-API-FB-09	Fluoride	0.29	NA	0.29	J	3
WAN-API-FD-01	Fluoride	0.33	NA	0.33	U	3
WAN-API-FD-03	Fluoride	0.24	NA	0.24	U	3
WAN-PZ-26D	Fluoride	0.22	NA	0.22	U	3
WAN-WGWC-10	Fluoride	0.10	NA	0.10	U	3
WAN-WGWC-11	Fluoride	0.041	J	0.10	U	3
WAN-WGWC-12	Fluoride	0.083	J	0.10	U	3
WAN-WGWC-13	Fluoride	0.13	NA	0.13	U	3
WAN-WGWC-14A	Fluoride	0.04	J	0.10	U	3
WAN-WGWC-15	Fluoride	0.73	NA	0.73	J+	3
WAN-WGWC-17	Fluoride	0.064	J	0.10	U	3
WAN-WGWC-19	Fluoride	0.34	NA	0.34	U	3

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-WGWC-21	Fluoride	1.8	NA	1.8	J+	3
WAN-WGWC-22	Fluoride	0.32	NA	0.32	J+	3
WAN-WGWC-23	Fluoride	0.045	J	0.10	J	3
WAN-WGWC-24	Fluoride	0.28	NA	0.28	U	3
WAN-WGWC-9	Fluoride	0.90	NA	0.90	J+	3

mg/L-milligrams per liter

NA-not applicable

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

3.8 Field Duplicate

Two field duplicates were collected with the sample set, WAN-AP1-FD-01 and WAN-AP1-FD-03. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicate and the original samples (WAN-WGWC-19 and WAN-WGWC-24, respectively).

3.9 Equipment Blank

Three equipment blanks, WAN-AP1-EB-01, WAN-AP1-EB-02, and WAN-AP1-EB-03, were collected with the sample set. Metals were not detected in the equipment blanks above the MDLs, with the following exceptions.

Fluoride was detected in WAN-AP1-EB-01, WAN-AP1-EB-02, and WAN-AP1-EB-03 at concentrations greater than the RL. Therefore, the estimated fluoride concentrations in the associated samples were U qualified as not detected at the RL, the fluoride concentrations in the associated samples greater than the RL and less than the equipment blank concentrations were U qualified as not detected at the reported concentrations and the fluoride concentrations in the associated samples greater than the RL and less than ten times the equipment blank concentrations were J+ qualified as estimated with high bias..

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-AP1-FD-01	Fluoride	0.33	NA	0.33	U	3
WAN-AP1-FD-03	Fluoride	0.24	NA	0.24	U	3
WAN-PZ-26D	Fluoride	0.22	NA	0.22	U	3
WAN-WGWC-10	Fluoride	0.10	NA	0.10	U	3
WAN-WGWC-11	Fluoride	0.041	J	0.10	U	3
WAN-WGWC-12	Fluoride	0.083	J	0.10	U	3

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-WGWC-13	Fluoride	0.13	NA	0.13	U	3
WAN-WGWC-14A	Fluoride	0.04	J	0.10	U	3
WAN-WGWC-15	Fluoride	0.73	NA	0.73	J+	3
WAN-WGWC-17	Fluoride	0.064	NA	0.10	U	3
WAN-WGWC-19	Fluoride	0.34	NA	0.34	U	3
WAN-WGWC-21	Fluoride	1.78	NA	1.8	J+	3
WAN-WGWC-22	Fluoride	0.32	NA	0.32	U	3
WAN-WGWC-23	Fluoride	0.045	J	0.10	U	3
WAN-WGWC-24	Fluoride	0.28	NA	0.28	U	3
WAN-WGWC-9	Fluoride	0.90	NA	0.90	J+	3

mg/L-milligrams per liter

NA-not applicable

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 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.

**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: 10 January 2024
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-239334-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of fourteen aqueous samples, two field duplicate samples, three equipment blanks and two field blanks, collected 16-17 August 2023, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

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. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory report, 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, November 2020 (EPA 542-R-20-006); 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 report:

Laboratory ID	Client ID
680-239334-1	WAN-WGWC-9
680-239334-2	WAN-WGWC-10
680-239334-3	WAN-WGWC-11
680-239334-4	WAN-WGWC-12
680-239334-5	WAN-WGWC-13
680-239334-6	WAN-WGWC-14A
680-239334-7	WAN-WGWC-15
680-239334-8	WAN-WGWC-17
680-239334-9	WAN-WGWC-19
680-239334-10	WAN-WGWC-21
680-239334-11	WAN-WGWC-22

Laboratory ID	Client ID
680-239334-12	WAN-WGWC-23
680-239334-13	WAN-WGWC-24
680-239334-14	WAN-PZ-26D
680-239334-15	WAN-API-FD-01
680-239334-16	WAN-API-FD-03
680-239334-17	WAN-API-FB-08
680-239334-18	WAN-API-FB-09
680-239334-19	WAN-API-EB-01
680-239334-20	WAN-API-EB-02
680-239334-21	WAN-API-EB-03

The non-radiochemistry data were reported in laboratory report 680-239334-1.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA 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 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 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 625148 and 625154). Two method blanks were reported for the radium-228 data (batches 625149 and 625155). 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)

One batch MS/MSD pair was reported for radium-226 and one batch MS/MSD pair was reported for radium-228. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to 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 and one LCS and one LCS/LCSD pair were reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported with the data.

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

Three equipment blanks, WAN-AP1-EB-01, WAN-AP1-EB-02 and WAN-AP1-EB-01 were collected with the sample set. Radium-226 and Radium-228 were not detected in the equipment blanks above the MDCs.

1.9 Field Blank

Two field blanks, WAN-AP1-FB-08 and WAN-AP1-FB-09 were collected with the sample set. Radium-226 was not detected in the field blanks above the MDCs.

Radium-228 was detected in AP1-FB-08 (0.865 pCi/L) and WAN-AP1-FB-09 (0.693 pCi/L) at concentrations greater than the MDCs. Since the mean difference (MD) between samples WAN-AP1-FD-01, WAN-PZ-26D, WAN-WGWC-21, WAN-WGWC-23 and WAN-WGWC-24 were between 0 and 2 and the sample concentration was less than ten times the blank concentrations, the radium-228 concentrations in these samples were UJ qualified as estimated less than the reported concentrations. Since the MD between sample WAN-WGWC-22 was between 2 and 3 and the sample concentration was less than ten times the blank concentrations, the radium-228 concentration in the sample was J qualified. In addition, since radium-226 was detected at concentrations greater than the MDCs in these samples the combined radium concentrations were J qualified as estimated for these samples.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
WAN-WGWC-21	Radium-228	1.99	NA	1.99	UJ	3
WAN-WGWC-21	Combined Radium 226 + 228	2.44	NA	2.44	J	3
WAN-WGWC-22	Radium-228	3.02	NA	3.02	J	3
WAN-WGWC-22	Combined Radium 226 + 228	4.47	NA	4.47	J	3
WAN-WGWC-23	Radium-228	1.65	NA	1.65	UJ	3
WAN-WGWC-23	Combined Radium 226 + 228	1.91	NA	1.91	J	3
WAN-WGWC-24	Radium-228	1.45	NA	1.45	UJ	3
WAN-WGWC-24	Combined Radium 226 + 228	1.62	NA	1.62	J	3
WAN-AP1-FD-01	Radium-228	0.577	NA	0.577	UJ	3
WAN-AP1-FD-01	Combined Radium 226 + 228	0.673	NA	0.673	J	3
WAN-PZ-26D	Radium-228	1.24	NA	1.24	UJ	3

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
WAN-PZ-26D	Combined Radium 226 + 228	1.44	NA	1.44	J	3

pCi/L-picocuries per liter

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

1.10 Field Duplicate

Two field duplicate samples, WAN-AP1-FD-01 and WAN-AP1-FD-03 were collected with the sample set. Acceptable precision [replicate error ratio (RER) $(2\sigma) < 3$] was demonstrated between the field duplicates and the original samples, WAN-WGWC-19 and WAN-WGWC-24, respectively.

1.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

1.12 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 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: 8 January 2024
To: Courtney Collins
From: Derek Yeadon
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-240936-1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of one water sample, collected 26 September 2023, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Savannah, Georgia, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Total Dissolved Solids (TDS) by 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 are usable for supporting project objectives.

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 sample was analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
680-240936-1	WAN-WGWC-28D

The laboratory reported results for the analytical method(s) requested for each sample on the chain of custody (COC).

There was a time lapse for the second sample transfer times. The second sample relinquishing was documented as 09/28/23, 12:11 and the second sample receiving was documented as 09/29/23, 08:00, but no courier was listed. The lab provided sample login data for courier delivery.

The sample was received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The laboratory report was revised on 09/29/2023 to add mercury to the analyte reporting list on the COC for sample WAN-WGWC-28D. The laboratory report was identified as 680-240936-1, Revision 1.

1.0 METALS

The sample was analyzed for metals by US EPA 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 or not applicable. 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
- ✓ 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 time was 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 800292). 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 WAN-WGWC-28D. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exception.

The recoveries of boron and calcium in the MS/MSD pair were outside of the method specified acceptance criteria. Since boron and calcium were present in sample WAN-WGWC-28D at concentrations greater than four times that of the spiked amount, no qualifications were applied to 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 was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.7 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 sample was analyzed for mercury by US EPA 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 or not applicable. 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
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 **Overall Assessment**

The mercury 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%.

2.2 **Holding Time**

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding time was 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). One method blank was reported (batch 802242). Mercury was not detected in the method blank above the MDL.

2.4 **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). One sample set specific MS/MSD pair was reported, using sample WAN-WGWC-28D. 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). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.7 Electronic Data Deliverable Review

Results and sample ID 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 WET CHEMISTRY

The sample was analyzed for anions by US EPA 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 or not applicable. 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
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry 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%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 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). Two method blanks were reported for anions (batches 800946 and 801159). One method blank was reported for TDS (batch 800780). The wet chemistry parameters were not detected in the method blanks above the MDLs.

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).

Two batch MS/MSD pairs were reported for anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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). Two LCS/LCS duplicate (LCSD) pairs were reported for anions, and one LCS/LCSD pair was reported for TDS. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One batch laboratory duplicate was reported for TDS. Since this was batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to the dilutions analyzed.

3.8 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.

**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: 10 January 2024
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-240936-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of one aqueous sample collected 26 September 2023, as part of the Plant Wansley Ash Pond on-site sampling event.

The sample was analyzed at Eurofins St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

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 are usable for supporting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory report, 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, November 2020 (EPA 542-R-20-006); 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 sample was analyzed and reported in the laboratory report:

Laboratory ID	Client ID
680-240936-1	WAN-WGWC-28D

The non-radiochemistry data were reported in laboratory report 680-240936-1.

1.0 RADIOCHEMISTRY

The sample was analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA 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 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 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). One method blank was reported for the radium-226 data (batch 630678). One method blank was reported for the radium-228 data (batch 630679). 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.

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 for radium-226, and one LCS was reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Batch laboratory duplicates were reported for radium-226 and radium-228. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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

Equipment blanks were not collected with the sample set.

1.9 Field Blank

Field blanks were not collected with the sample set.

1.10 Field Duplicate

Field duplicates were not collected with the sample set.

1.11 Sensitivity

The sample was reported to the MDCs. Elevated non-detect results were not 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.

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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: 8 January 2024
To: Courtney Collins
From: Derek Yeadon
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-242746-1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of one water sample, collected 07 November 2023, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Savannah, Georgia, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Alkalinity by SM 2320B
- Sulfide by SM 4500-S2D
- Total Dissolved Solids (TDS) by SM 2540C

The samples were analyzed at Eurofins Orlando, Florida, for the following analytical tests:

- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0

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 are usable for supporting project objectives.

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 sample was analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
680-242746-1	WAN-WGWC-28D

The laboratory reported results for the analytical method(s) requested for each sample on the chain of custody (COC).

There was a time lapse for the second sample transfer times. The second sample relinquishing was documented as 11/08/23, 08:36 and the second sample receiving was documented as 11/09/23, 06:45, but no courier was listed. The lab provided sample login data for courier delivery.

The sample was received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

1.0 METALS

The sample was analyzed for metals by US EPA 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 or not applicable. 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
- ✓ 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 time was 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 807485). 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 batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to 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 was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.7 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 sample was analyzed for anions by US EPA 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 or not applicable. 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
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 **Overall Assessment**

The wet chemistry 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%.

2.2 **Holding Times**

The holding times for the wet chemistry parameters are listed below.

Analyte	Method	Holding Time
Anions	US EPA Method 300	28 days from collection to analysis
Alkalinity	SM 2320B	14 days from collection to analysis
TDS	SM 2540C	7 days from collection to analysis
Sulfide	SM 4500-S2D	28 days from 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 for anions (batches 64211, 64397 and 64397). One method blank was reported for alkalinity (batch 808619). One method blank was reported for TDS (batch 807892). One method blank was reported for sulfide (batch 807928). The wet chemistry parameters were not detected in the method blanks above the MDLs.

2.4 **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).

Two batch MS/MSD pairs were reported for anions. One batch MS/MSD pair was reported for sulfide. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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). Two LCS/LCS duplicate (LCSD) pairs were reported for anions, one LCS/LCSD pair was reported for alkalinity, one LCS/LCSD pair was reported for sulfide, and one LCS/LCSD pair was reported for TDS. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria with the following exception.

The recovery of sulfate in the LCS/LCSD from batch 64211 was low and outside the laboratory specified criteria. Since sulfate was not reported from batch 64211, no qualifications were applied to the data.

2.6 Laboratory Duplicate

One laboratory duplicate was reported for TDS and one laboratory duplicate was reported for sulfide, both using sample WAN-WGWC-28D. The RPD results were within the laboratory specified acceptance criteria.

One batch laboratory duplicate was reported for alkalinity. Since this was batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.7 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to the dilutions analyzed.

2.8 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.

**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.

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- 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 C2

Field Sampling Forms

Low-Flow Test Report:

Test Date / Time: 1/18/2023 1:05:05 PM

Project: Plant Wansley - Ash Pond

Operator Name: A. Schnittker

Location Name: PZA2-Deep Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.9 ft Total Depth: 95.9 ft Initial Depth to Water: 32.18 ft	Pump Type: Reclaimer Pump Tubing Type: Poly Pump Intake From TOC: 94 ft Estimated Total Volume Pumped: 94.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 500 ml/min Final Draw Down: 151 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Development paused.

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	
1/18/2023 1:05 PM	00:00	6.66 pH	20.04 °C	1,144.1 µS/cm	5.34 mg/L	507.00 NTU	118.2 mV	35.70 ft	500.00 ml/min
1/18/2023 1:15 PM	10:00	9.22 pH	19.66 °C	3,732.8 µS/cm	2.70 mg/L	643.00 NTU	91.2 mV	40.10 ft	500.00 ml/min
1/18/2023 1:25 PM	20:00	9.41 pH	19.65 °C	4,447.2 µS/cm	1.83 mg/L	576.00 NTU	81.1 mV	44.80 ft	500.00 ml/min
1/18/2023 1:35 PM	30:00	9.39 pH	19.73 °C	4,863.8 µS/cm	1.19 mg/L	146.00 NTU	78.2 mV	44.80 ft	500.00 ml/min
1/18/2023 1:45 PM	40:00	9.52 pH	19.75 °C	5,689.7 µS/cm	0.41 mg/L	66.80 NTU	68.8 mV	44.80 ft	500.00 ml/min
1/18/2023 1:55 PM	50:00	9.53 pH	19.67 °C	5,830.1 µS/cm	0.29 mg/L	41.70 NTU	60.8 mV	44.80 ft	500.00 ml/min
1/18/2023 2:05 PM	01:00:00	9.47 pH	19.79 °C	5,274.4 µS/cm	1.47 mg/L	39.70 NTU	57.8 mV	44.80 ft	500.00 ml/min
1/18/2023 2:15 PM	01:10:00	9.62 pH	19.69 °C	5,960.2 µS/cm	0.80 mg/L	54.90 NTU	46.3 mV	44.80 ft	500.00 ml/min
1/18/2023 2:25 PM	01:20:00	9.63 pH	19.56 °C	5,947.9 µS/cm	0.37 mg/L	41.50 NTU	40.3 mV	44.80 ft	500.00 ml/min
1/18/2023 2:35 PM	01:30:00	9.62 pH	19.76 °C	5,792.3 µS/cm	0.55 mg/L	27.40 NTU	38.6 mV	44.80 ft	500.00 ml/min
1/18/2023 2:45 PM	01:40:00	9.65 pH	19.83 °C	5,942.3 µS/cm	0.29 mg/L	18.30 NTU	31.5 mV	44.80 ft	500.00 ml/min
1/18/2023 2:55 PM	01:50:00	9.69 pH	19.76 °C	5,979.3 µS/cm	0.23 mg/L	16.90 NTU	25.0 mV	44.80 ft	500.00 ml/min
1/18/2023 3:05 PM	02:00:00	9.69 pH	19.79 °C	5,965.8 µS/cm	0.19 mg/L	18.40 NTU	22.0 mV	44.80 ft	500.00 ml/min
1/18/2023 3:15 PM	02:10:00	9.70 pH	19.80 °C	5,942.0 µS/cm	0.19 mg/L	13.20 NTU	17.9 mV	44.80 ft	500.00 ml/min
1/18/2023 3:25 PM	02:20:00	9.69 pH	19.68 °C	5,891.6 µS/cm	0.22 mg/L	10.80 NTU	16.2 mV	44.80 ft	500.00 ml/min

1/18/2023 3:35 PM	02:30:00	9.64 pH	19.78 °C	5,577.3 µS/cm	0.39 mg/L	12.70 NTU	16.0 mV	44.80 ft	500.00 ml/min
1/18/2023 3:45 PM	02:40:00	9.69 pH	19.68 °C	5,818.6 µS/cm	0.26 mg/L	14.90 NTU	13.3 mV	44.80 ft	500.00 ml/min
1/18/2023 3:55 PM	02:50:00	9.70 pH	19.63 °C	5,878.0 µS/cm	0.13 mg/L	10.40 NTU	8.7 mV	44.80 ft	500.00 ml/min
1/18/2023 4:05 PM	03:00:00	9.71 pH	19.66 °C	5,903.3 µS/cm	0.15 mg/L	7.22 NTU	6.2 mV	44.80 ft	500.00 ml/min
1/18/2023 4:15 PM	03:10:00	9.73 pH	19.61 °C	5,918.5 µS/cm	0.17 mg/L	7.36 NTU	3.3 mV	44.80 ft	500.00 ml/min
1/18/2023 4:25 PM	03:20:00	9.73 pH	19.53 °C	5,879.2 µS/cm	0.19 mg/L	7.84 NTU	2.3 mV	44.80 ft	500.00 ml/min
1/18/2023 4:35 PM	03:30:00	9.71 pH	19.64 °C	5,818.6 µS/cm	0.14 mg/L	6.80 NTU	0.9 mV	44.80 ft	500.00 ml/min
1/18/2023 4:45 PM	03:40:00	9.71 pH	19.58 °C	5,824.4 µS/cm	0.10 mg/L	6.54 NTU	-0.1 mV	44.80 ft	500.00 ml/min
1/18/2023 4:55 PM	03:50:00	9.72 pH	19.41 °C	5,849.0 µS/cm	0.07 mg/L	5.98 NTU	-2.8 mV	44.80 ft	500.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/19/2023 9:25:19 AM

Project: Plant Wansley - Ash Pond

Operator Name: A. Schnittker

Location Name: PZA2-Deep Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.9 ft Total Depth: 95.9 ft Initial Depth to Water: 32.28 ft	Pump Type: Reclaimer Pump Tubing Type: Poly Pump Intake From TOC: 92 ft Estimated Total Volume Pumped: 35000 ml Flow Cell Volume: 90 ml Final Flow Rate: 500 ml/min Final Draw Down: 13.62 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Development complete.

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	
1/19/2023 9:25 AM	00:00	9.62 pH	19.97 °C	6,302.1 µS/cm	0.71 mg/L	11.70 NTU	9.0 mV	45.90 ft	500.00 ml/min
1/19/2023 9:35 AM	10:00	9.72 pH	19.47 °C	6,503.0 µS/cm	0.35 mg/L	7.71 NTU	2.4 mV	45.90 ft	500.00 ml/min
1/19/2023 9:45 AM	20:00	9.75 pH	19.43 °C	6,417.9 µS/cm	0.29 mg/L	7.18 NTU	-1.8 mV	45.90 ft	500.00 ml/min
1/19/2023 9:55 AM	30:00	9.76 pH	19.43 °C	6,398.3 µS/cm	0.25 mg/L	6.24 NTU	-3.7 mV	45.90 ft	500.00 ml/min
1/19/2023 10:05 AM	40:00	9.77 pH	19.43 °C	6,402.3 µS/cm	0.23 mg/L	5.72 NTU	-5.9 mV	45.90 ft	500.00 ml/min
1/19/2023 10:15 AM	50:00	9.78 pH	19.47 °C	6,384.4 µS/cm	0.22 mg/L	5.21 NTU	-6.6 mV	45.90 ft	500.00 ml/min
1/19/2023 10:25 AM	01:00:00	9.78 pH	19.54 °C	6,371.2 µS/cm	0.22 mg/L	4.01 NTU	-8.4 mV	45.90 ft	500.00 ml/min
1/19/2023 10:35 AM	01:10:00	9.78 pH	19.65 °C	6,385.7 µS/cm	0.87 mg/L	3.44 NTU	-8.4 mV	45.90 ft	500.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/19/2023 11:25:11 AM

Project: Plant Wansley - Ash Pond

Operator Name: A. Schnittker

Location Name: PZA2-Mid Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 69.7 ft Total Depth: 79.75 ft Initial Depth to Water: 31.76 ft	Pump Type: Reclaimer Pump Tubing Type: Poly Pump Intake From TOC: 77 ft Estimated Total Volume Pumped: 170 liter Flow Cell Volume: 90 ml Final Flow Rate: 500 ml/min Final Draw Down: 11 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Development complete.

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	
1/19/2023 11:25 AM	00:00	9.92 pH	21.12 °C	4,918.7 µS/cm	1.27 mg/L	1,000.00 NTU	14.2 mV	32.70 ft	500.00 ml/min
1/19/2023 11:35 AM	10:00	9.91 pH	20.85 °C	5,055.8 µS/cm	0.23 mg/L	239.00 NTU	30.7 mV	32.70 ft	500.00 ml/min
1/19/2023 11:45 AM	20:00	9.90 pH	20.90 °C	4,988.6 µS/cm	0.18 mg/L	201.00 NTU	33.6 mV	32.70 ft	500.00 ml/min
1/19/2023 11:55 AM	30:00	9.89 pH	20.93 °C	4,981.7 µS/cm	0.41 mg/L	191.00 NTU	38.7 mV	32.70 ft	500.00 ml/min
1/19/2023 12:05 PM	40:00	9.87 pH	20.87 °C	4,911.7 µS/cm	1.41 mg/L	154.00 NTU	44.8 mV	32.70 ft	500.00 ml/min
1/19/2023 12:15 PM	50:00	9.86 pH	20.90 °C	4,910.7 µS/cm	0.90 mg/L	48.40 NTU	47.9 mV	32.70 ft	500.00 ml/min
1/19/2023 12:25 PM	01:00:00	9.85 pH	20.87 °C	4,900.3 µS/cm	1.17 mg/L	39.30 NTU	48.8 mV	32.70 ft	500.00 ml/min
1/19/2023 12:35 PM	01:10:00	9.84 pH	21.01 °C	4,898.2 µS/cm	1.96 mg/L	25.10 NTU	47.5 mV	32.70 ft	500.00 ml/min
1/19/2023 12:45 PM	01:20:00	9.84 pH	20.94 °C	4,889.4 µS/cm	1.63 mg/L	18.70 NTU	47.0 mV	32.70 ft	500.00 ml/min
1/19/2023 12:55 PM	01:30:00	9.81 pH	22.28 °C	4,880.6 µS/cm	1.30 mg/L	15.00 NTU	49.3 mV	32.70 ft	500.00 ml/min
1/19/2023 1:05 PM	01:40:00	9.82 pH	21.04 °C	4,838.5 µS/cm	1.89 mg/L	16.90 NTU	47.2 mV	32.70 ft	500.00 ml/min
1/19/2023 1:15 PM	01:50:00	9.82 pH	20.80 °C	4,824.8 µS/cm	1.34 mg/L	15.10 NTU	44.5 mV	32.70 ft	500.00 ml/min
1/19/2023 1:25 PM	02:00:00	9.82 pH	20.80 °C	4,792.3 µS/cm	1.00 mg/L	12.90 NTU	44.2 mV	32.70 ft	500.00 ml/min
1/19/2023 1:35 PM	02:10:00	9.81 pH	21.05 °C	4,778.8 µS/cm	0.20 mg/L	11.50 NTU	42.5 mV	32.70 ft	500.00 ml/min
1/19/2023 1:45 PM	02:20:00	9.81 pH	20.98 °C	4,790.5 µS/cm	0.13 mg/L	10.30 NTU	43.3 mV	32.70 ft	500.00 ml/min

1/19/2023 1:55 PM	02:30:00	9.81 pH	20.88 °C	4,786.6 μS/cm	0.18 mg/L	10.80 NTU	47.7 mV	32.70 ft	500.00 ml/min
1/19/2023 2:05 PM	02:40:00	9.81 pH	21.17 °C	4,760.8 μS/cm	0.19 mg/L	8.91 NTU	51.4 mV	32.70 ft	500.00 ml/min
1/19/2023 2:15 PM	02:50:00	9.81 pH	21.10 °C	4,774.7 μS/cm	0.17 mg/L	7.88 NTU	53.3 mV	32.70 ft	500.00 ml/min
1/19/2023 2:25 PM	03:00:00	9.80 pH	21.42 °C	4,762.7 μS/cm	0.18 mg/L	6.22 NTU	55.3 mV	32.70 ft	500.00 ml/min
1/19/2023 2:35 PM	03:10:00	9.80 pH	21.19 °C	4,695.2 μS/cm	0.33 mg/L	5.60 NTU	56.3 mV	32.70 ft	500.00 ml/min
1/19/2023 2:45 PM	03:20:00	9.80 pH	21.08 °C	4,713.5 μS/cm	0.25 mg/L	3.03 NTU	53.1 mV	32.70 ft	500.00 ml/min
1/19/2023 2:55 PM	03:30:00	9.80 pH	20.75 °C	4,740.7 μS/cm	1.30 mg/L	2.89 NTU	17.6 mV	32.70 ft	500.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/19/2023 3:45:31 PM

Project: Plant Wansley - Ash Pond

Operator Name: A. Schnittker

Location Name: PZA2-Shallow Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48.4 ft Total Depth: 58.41 ft Initial Depth to Water: 31.6 ft	Pump Type: Reclaimer Pump Tubing Type: Poly Pump Intake From TOC: 56 ft Estimated Total Volume Pumped: 144 liter Flow Cell Volume: 90 ml Final Flow Rate: 500 ml/min Final Draw Down: 0 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Development paused.

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	
1/19/2023 3:45 PM	00:00	9.48 pH	27.40 °C	2,366.1 µS/cm	2.40 mg/L	1,000.00 NTU	58.6 mV	31.60 ft	500.00 ml/min
1/19/2023 3:55 PM	10:00	9.30 pH	20.97 °C	2,595.7 µS/cm	0.60 mg/L	576.00 NTU	58.6 mV	31.60 ft	500.00 ml/min
1/19/2023 4:05 PM	20:00	9.29 pH	21.10 °C	2,602.9 µS/cm	0.21 mg/L	210.00 NTU	57.5 mV	31.60 ft	500.00 ml/min
1/19/2023 4:15 PM	30:00	9.34 pH	20.80 °C	2,642.2 µS/cm	0.73 mg/L	143.00 NTU	63.8 mV	31.60 ft	500.00 ml/min
1/19/2023 4:25 PM	40:00	9.26 pH	20.87 °C	2,609.8 µS/cm	0.19 mg/L	54.90 NTU	51.3 mV	31.60 ft	500.00 ml/min
1/19/2023 4:35 PM	50:00	9.27 pH	20.66 °C	2,622.5 µS/cm	1.50 mg/L	18.20 NTU	57.6 mV	31.60 ft	500.00 ml/min
1/19/2023 4:45 PM	01:00:00	9.27 pH	20.47 °C	2,636.1 µS/cm	0.17 mg/L	23.10 NTU	41.8 mV	31.60 ft	500.00 ml/min
1/19/2023 4:55 PM	01:10:00	9.26 pH	20.37 °C	2,626.7 µS/cm	1.15 mg/L	21.80 NTU	42.4 mV	31.60 ft	500.00 ml/min
1/19/2023 5:05 PM	01:20:00	9.26 pH	20.16 °C	2,623.9 µS/cm	1.11 mg/L	25.60 NTU	39.0 mV	31.60 ft	500.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/20/2023 9:10:10 AM

Project: Plant Wansley - Ash Pond

Operator Name: A. Schnittker

Location Name: PZA2-Shallow Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48.4 ft Total Depth: 58.41 ft Initial Depth to Water: 31.62 ft	Pump Type: Reclaimer Pump Tubing Type: Poly Pump Intake From TOC: 56 ft Estimated Total Volume Pumped: 87.1 liter Flow Cell Volume: 90 ml Final Flow Rate: 500 ml/min Final Draw Down: 1 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Development complete.

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	
1/20/2023 9:10 AM	00:00	8.42 pH	18.26 °C	1,812.9 µS/cm	0.30 mg/L	47.50 NTU	105.1 mV	31.70 ft	500.00 ml/min
1/20/2023 9:20 AM	10:00	9.20 pH	19.15 °C	1,843.0 µS/cm	0.65 mg/L	31.00 NTU	76.0 mV	31.70 ft	500.00 ml/min
1/20/2023 9:30 AM	20:00	9.25 pH	19.16 °C	1,837.1 µS/cm	0.19 mg/L	29.60 NTU	66.9 mV	31.70 ft	500.00 ml/min
1/20/2023 9:40 AM	30:00	9.27 pH	18.99 °C	1,837.6 µS/cm	0.17 mg/L	14.20 NTU	57.6 mV	31.70 ft	500.00 ml/min
1/20/2023 9:50 AM	40:00	9.28 pH	18.89 °C	1,825.9 µS/cm	0.19 mg/L	5.11 NTU	54.6 mV	31.70 ft	500.00 ml/min
1/20/2023 10:00 AM	50:00	9.29 pH	18.69 °C	1,835.3 µS/cm	0.31 mg/L	5.97 NTU	52.3 mV	31.70 ft	500.00 ml/min
1/20/2023 10:10 AM	01:00:00	9.28 pH	19.27 °C	1,841.7 µS/cm	0.27 mg/L	5.64 NTU	46.5 mV	31.70 ft	500.00 ml/min
1/20/2023 10:20 AM	01:10:00	9.28 pH	19.07 °C	1,840.3 µS/cm	0.24 mg/L	5.14 NTU	44.9 mV	31.70 ft	500.00 ml/min
1/20/2023 10:30 AM	01:20:00	9.28 pH	19.34 °C	1,827.0 µS/cm	0.41 mg/L	4.44 NTU	47.7 mV	31.70 ft	500.00 ml/min
1/20/2023 10:40 AM	01:30:00	9.29 pH	19.48 °C	1,833.4 µS/cm	0.16 mg/L	3.65 NTU	44.2 mV	31.70 ft	500.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/14/2023 10:25:07 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 119.86 ft Total Depth: 129.86 ft Initial Depth to Water: 25.61 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 124 ft Estimated Total Volume Pumped: 8.3 liter Flow Cell Volume: 90 ml Final Flow Rate: 275 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1055. 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	
2/14/2023 10:25 AM	00:00	5.33 pH	16.78 °C	32.62 µS/cm	1.88 mg/L	2.46 NTU	226.8 mV	25.61 ft	275.00 ml/min
2/14/2023 10:30 AM	05:00	5.33 pH	16.87 °C	32.86 µS/cm	1.61 mg/L	2.58 NTU	220.8 mV	25.90 ft	275.00 ml/min
2/14/2023 10:35 AM	10:00	5.33 pH	16.99 °C	33.02 µS/cm	1.56 mg/L	1.22 NTU	221.1 mV	25.90 ft	275.00 ml/min
2/14/2023 10:40 AM	15:00	5.34 pH	17.04 °C	33.24 µS/cm	1.55 mg/L	1.04 NTU	220.3 mV	25.90 ft	275.00 ml/min
2/14/2023 10:45 AM	20:00	5.36 pH	16.99 °C	33.40 µS/cm	1.54 mg/L	0.66 NTU	218.5 mV	25.90 ft	275.00 ml/min
2/14/2023 10:50 AM	25:00	5.37 pH	16.71 °C	33.73 µS/cm	1.55 mg/L	0.61 NTU	215.4 mV	25.90 ft	275.00 ml/min
2/14/2023 10:55 AM	30:00	5.37 pH	17.12 °C	33.65 µS/cm	1.57 mg/L	0.58 NTU	215.7 mV	25.90 ft	275.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/14/2023 11:40:22 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 92.65 ft Total Depth: 102.65 ft Initial Depth to Water: 8.38 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 97 ft Estimated Total Volume Pumped: 6.9 liter Flow Cell Volume: 90 ml Final Flow Rate: 230 ml/min Final Draw Down: 10 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1210. 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	
2/14/2023 11:40 AM	00:00	6.02 pH	16.13 °C	117.58 µS/cm	0.13 mg/L	1.37 NTU	110.7 mV	8.38 ft	230.00 ml/min
2/14/2023 11:45 AM	05:00	6.02 pH	16.34 °C	116.08 µS/cm	0.05 mg/L	0.96 NTU	130.1 mV	9.20 ft	230.00 ml/min
2/14/2023 11:50 AM	10:00	6.03 pH	16.39 °C	116.72 µS/cm	0.03 mg/L	0.35 NTU	132.3 mV	9.20 ft	230.00 ml/min
2/14/2023 11:55 AM	15:00	6.04 pH	16.47 °C	117.35 µS/cm	0.04 mg/L	0.28 NTU	131.4 mV	9.20 ft	230.00 ml/min
2/14/2023 12:00 PM	20:00	6.05 pH	16.56 °C	118.01 µS/cm	0.06 mg/L	0.32 NTU	130.3 mV	9.20 ft	230.00 ml/min
2/14/2023 12:05 PM	25:00	6.05 pH	16.58 °C	118.71 µS/cm	0.07 mg/L	0.35 NTU	128.8 mV	9.20 ft	230.00 ml/min
2/14/2023 12:10 PM	30:00	6.06 pH	16.61 °C	119.34 µS/cm	0.08 mg/L	0.39 NTU	127.8 mV	9.20 ft	230.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/14/2023 4:40:13 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

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: 2.68 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 1 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1710. 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	
2/14/2023 4:40 PM	00:00	5.46 pH	16.60 °C	31.10 µS/cm	5.48 mg/L	0.68 NTU	228.7 mV	2.68 ft	300.00 ml/min
2/14/2023 4:45 PM	05:00	5.49 pH	16.56 °C	31.07 µS/cm	5.41 mg/L	0.43 NTU	204.2 mV	2.80 ft	300.00 ml/min
2/14/2023 4:50 PM	10:00	5.50 pH	16.52 °C	31.11 µS/cm	5.41 mg/L	0.88 NTU	193.9 mV	2.80 ft	300.00 ml/min
2/14/2023 4:55 PM	15:00	5.52 pH	16.51 °C	31.10 µS/cm	5.41 mg/L	0.26 NTU	186.0 mV	2.80 ft	300.00 ml/min
2/14/2023 5:00 PM	20:00	5.52 pH	16.51 °C	31.15 µS/cm	5.41 mg/L	0.18 NTU	225.3 mV	2.80 ft	300.00 ml/min
2/14/2023 5:05 PM	25:00	5.50 pH	16.50 °C	31.15 µS/cm	5.42 mg/L	0.26 NTU	227.0 mV	2.80 ft	300.00 ml/min
2/14/2023 5:10 PM	30:00	5.49 pH	16.52 °C	31.14 µS/cm	5.42 mg/L	0.17 NTU	181.1 mV	2.80 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/15/2023 9:35:45 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

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: 4.36 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 68 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 13 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1005. Raining 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	
2/15/2023 9:35 AM	00:00	6.68 pH	15.22 °C	134.65 µS/cm	0.78 mg/L	1.75 NTU	5.3 mV	4.36 ft	150.00 ml/min
2/15/2023 9:40 AM	05:00	6.94 pH	15.89 °C	134.42 µS/cm	0.01 mg/L	1.31 NTU	-36.5 mV	5.50 ft	150.00 ml/min
2/15/2023 9:45 AM	10:00	7.14 pH	15.97 °C	133.83 µS/cm	0.00 mg/L	1.14 NTU	-51.6 mV	5.50 ft	150.00 ml/min
2/15/2023 9:50 AM	15:00	7.19 pH	15.98 °C	131.55 µS/cm	0.00 mg/L	0.62 NTU	-50.3 mV	5.50 ft	150.00 ml/min
2/15/2023 9:55 AM	20:00	7.20 pH	16.03 °C	129.68 µS/cm	0.01 mg/L	0.48 NTU	-46.1 mV	5.50 ft	150.00 ml/min
2/15/2023 10:00 AM	25:00	7.20 pH	16.07 °C	127.96 µS/cm	0.03 mg/L	0.51 NTU	-42.0 mV	5.50 ft	150.00 ml/min
2/15/2023 10:05 AM	30:00	7.21 pH	16.07 °C	126.80 µS/cm	0.04 mg/L	0.54 NTU	-64.9 mV	5.50 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/14/2023 12:36:23 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: 13.6 ft Total Depth: 23.6 ft Initial Depth to Water: 13.6 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 18 ft Estimated Total Volume Pumped: 27.3 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 6.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 877800
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Test Notes:

Sampled at 1425 on 2-14-23. Partly cloudy, 68.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.1	
2/14/2023 12:36 PM	00:00	5.59 pH	24.74 °C	26.19 µS/cm	7.10 mg/L	14.00 NTU	102.7 mV	13.60 ft	150.00 ml/min
2/14/2023 12:41 PM	05:00	5.43 pH	18.39 °C	25.30 µS/cm	5.75 mg/L	12.50 NTU	101.7 mV	13.85 ft	150.00 ml/min
2/14/2023 12:46 PM	10:00	5.41 pH	18.04 °C	25.15 µS/cm	5.79 mg/L	12.60 NTU	109.5 mV	13.90 ft	150.00 ml/min
2/14/2023 12:51 PM	15:00	5.39 pH	18.07 °C	24.53 µS/cm	5.91 mg/L	12.60 NTU	114.8 mV	13.95 ft	150.00 ml/min
2/14/2023 12:56 PM	20:00	5.42 pH	17.95 °C	24.75 µS/cm	5.83 mg/L	12.30 NTU	118.1 mV	13.95 ft	150.00 ml/min
2/14/2023 1:01 PM	25:00	5.35 pH	17.81 °C	23.66 µS/cm	5.95 mg/L	11.30 NTU	122.7 mV	14.00 ft	150.00 ml/min
2/14/2023 1:06 PM	30:00	5.33 pH	17.55 °C	23.19 µS/cm	5.97 mg/L	11.30 NTU	126.0 mV	14.00 ft	150.00 ml/min
2/14/2023 1:11 PM	35:00	5.33 pH	17.46 °C	23.42 µS/cm	5.94 mg/L	11.30 NTU	128.2 mV	14.00 ft	150.00 ml/min
2/14/2023 1:16 PM	40:00	5.32 pH	17.23 °C	22.95 µS/cm	6.07 mg/L	11.30 NTU	130.0 mV	14.00 ft	150.00 ml/min
2/14/2023 1:21 PM	45:00	5.36 pH	17.19 °C	23.80 µS/cm	5.99 mg/L	11.40 NTU	131.3 mV	14.00 ft	150.00 ml/min
2/14/2023 1:26 PM	50:00	5.34 pH	17.10 °C	24.32 µS/cm	6.07 mg/L	12.10 NTU	132.1 mV	14.00 ft	150.00 ml/min
2/14/2023 1:31 PM	55:00	5.36 pH	17.06 °C	23.86 µS/cm	6.03 mg/L	11.50 NTU	132.0 mV	14.00 ft	150.00 ml/min
2/14/2023 1:36 PM	01:00:00	5.35 pH	17.05 °C	23.63 µS/cm	6.05 mg/L	11.10 NTU	133.0 mV	14.00 ft	150.00 ml/min
2/14/2023 1:41 PM	01:05:00	5.33 pH	17.06 °C	23.59 µS/cm	6.12 mg/L	11.00 NTU	133.8 mV	14.00 ft	150.00 ml/min
2/14/2023 1:46 PM	01:10:00	5.34 pH	17.05 °C	23.32 µS/cm	6.18 mg/L	10.70 NTU	134.1 mV	14.00 ft	150.00 ml/min

2/14/2023 1:51 PM	01:15:00	5.34 pH	17.01 °C	23.59 µS/cm	6.15 mg/L	10.90 NTU	134.6 mV	14.00 ft	150.00 ml/min
2/14/2023 1:56 PM	01:20:00	5.32 pH	16.96 °C	23.65 µS/cm	6.22 mg/L	10.80 NTU	135.2 mV	14.00 ft	150.00 ml/min
2/14/2023 2:01 PM	01:25:00	5.33 pH	16.97 °C	23.21 µS/cm	6.17 mg/L	10.50 NTU	134.9 mV	14.00 ft	150.00 ml/min
2/14/2023 2:06 PM	01:30:00	5.34 pH	16.92 °C	23.15 µS/cm	6.23 mg/L	10.50 NTU	152.8 mV	14.00 ft	150.00 ml/min
2/14/2023 2:11 PM	01:35:00	5.33 pH	16.92 °C	22.94 µS/cm	6.25 mg/L	10.10 NTU	136.6 mV	14.00 ft	150.00 ml/min
2/14/2023 2:16 PM	01:40:00	5.34 pH	17.02 °C	22.89 µS/cm	6.26 mg/L	9.90 NTU	135.9 mV	14.00 ft	150.00 ml/min
2/14/2023 2:21 PM	01:45:00	5.30 pH	17.01 °C	23.09 µS/cm	6.27 mg/L	9.80 NTU	137.3 mV	14.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/14/2023 10:41:28 AM

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: 13.6 ft Total Depth: 23.6 ft Initial Depth to Water: 13.48 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 18 ft Estimated Total Volume Pumped: 10.95 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 6.24 in	Instrument Used: Aqua TROLL 400 Serial Number: 877800
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Test Notes:

Low conductivity, recal. Will resume after recal.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.1	
2/14/2023 10:41 AM	00:00	8.09 pH	27.07 °C	2.88 µS/cm	7.32 mg/L	20.00 NTU	227.5 mV	13.48 ft	150.00 ml/min
2/14/2023 10:46 AM	05:00	6.24 pH	17.41 °C	35.39 µS/cm	5.26 mg/L	18.50 NTU	116.9 mV	13.75 ft	150.00 ml/min
2/14/2023 10:51 AM	10:00	5.88 pH	17.24 °C	31.28 µS/cm	5.29 mg/L	16.40 NTU	117.1 mV	13.80 ft	150.00 ml/min
2/14/2023 10:56 AM	15:00	5.74 pH	17.26 °C	27.17 µS/cm	5.35 mg/L	16.30 NTU	118.8 mV	13.90 ft	150.00 ml/min
2/14/2023 11:01 AM	20:00	5.65 pH	17.45 °C	25.47 µS/cm	5.29 mg/L	14.70 NTU	132.7 mV	13.90 ft	150.00 ml/min
2/14/2023 11:06 AM	25:00	5.61 pH	17.54 °C	22.56 µS/cm	5.32 mg/L	14.70 NTU	125.0 mV	13.90 ft	150.00 ml/min
2/14/2023 11:11 AM	30:00	5.54 pH	17.50 °C	22.50 µS/cm	5.38 mg/L	14.50 NTU	128.0 mV	13.90 ft	150.00 ml/min
2/14/2023 11:16 AM	35:00	5.53 pH	17.54 °C	22.16 µS/cm	5.37 mg/L	14.20 NTU	129.3 mV	13.95 ft	150.00 ml/min
2/14/2023 11:21 AM	40:00	5.51 pH	17.63 °C	20.74 µS/cm	5.42 mg/L	14.00 NTU	130.2 mV	14.00 ft	150.00 ml/min
2/14/2023 11:26 AM	45:00	5.44 pH	17.70 °C	19.42 µS/cm	5.42 mg/L	14.10 NTU	133.1 mV	14.00 ft	150.00 ml/min
2/14/2023 11:31 AM	50:00	5.46 pH	17.72 °C	20.02 µS/cm	5.48 mg/L	13.80 NTU	133.6 mV	14.00 ft	150.00 ml/min
2/14/2023 11:36 AM	55:00	5.42 pH	17.83 °C	18.86 µS/cm	5.57 mg/L	13.80 NTU	135.3 mV	14.00 ft	150.00 ml/min
2/14/2023 11:41 AM	01:00:00	5.42 pH	17.80 °C	18.24 µS/cm	5.59 mg/L	13.70 NTU	135.6 mV	14.00 ft	150.00 ml/min
2/14/2023 11:46 AM	01:05:00	5.41 pH	17.81 °C	18.18 µS/cm	5.56 mg/L	13.20 NTU	136.6 mV	14.00 ft	150.00 ml/min
2/14/2023 11:51 AM	01:10:00	5.38 pH	17.64 °C	17.43 µS/cm	5.83 mg/L	13.10 NTU	138.1 mV	14.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/14/2023 3:00:54 PM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

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: 16.61 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 99 ft Estimated Total Volume Pumped: 7.95 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: 877800
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Test Notes:

Sampled at 1553 on 2-14-23. Partly cloudy 68.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.1	
2/14/2023 3:00 PM	00:00	5.97 pH	21.15 °C	0.00 µS/cm	8.40 mg/L	10.00 NTU	89.9 mV	16.61 ft	150.00 ml/min
2/14/2023 3:05 PM	05:00	6.45 pH	17.71 °C	172.11 µS/cm	2.03 mg/L	0.80 NTU	136.1 mV	16.80 ft	150.00 ml/min
2/14/2023 3:10 PM	10:00	6.97 pH	17.46 °C	173.27 µS/cm	0.39 mg/L	0.90 NTU	45.3 mV	17.00 ft	150.00 ml/min
2/14/2023 3:15 PM	15:00	7.16 pH	17.47 °C	174.18 µS/cm	0.26 mg/L	1.80 NTU	50.0 mV	17.20 ft	150.00 ml/min
2/14/2023 3:20 PM	20:00	7.32 pH	17.59 °C	173.99 µS/cm	0.21 mg/L	1.40 NTU	45.9 mV	17.30 ft	150.00 ml/min
2/14/2023 3:25 PM	25:00	7.45 pH	17.41 °C	174.41 µS/cm	0.19 mg/L	1.00 NTU	36.7 mV	17.40 ft	150.00 ml/min
2/14/2023 3:30 PM	30:00	7.55 pH	17.37 °C	174.55 µS/cm	0.19 mg/L	1.00 NTU	28.6 mV	17.40 ft	150.00 ml/min
2/14/2023 3:35 PM	35:00	7.63 pH	17.30 °C	174.82 µS/cm	0.19 mg/L	1.20 NTU	19.7 mV	17.40 ft	150.00 ml/min
2/14/2023 3:40 PM	40:00	7.69 pH	17.26 °C	174.98 µS/cm	0.20 mg/L	0.80 NTU	4.3 mV	17.45 ft	150.00 ml/min
2/14/2023 3:45 PM	45:00	7.74 pH	17.30 °C	174.76 µS/cm	0.22 mg/L	0.80 NTU	-10.3 mV	17.50 ft	150.00 ml/min
2/14/2023 3:50 PM	50:00	7.78 pH	17.22 °C	174.21 µS/cm	0.23 mg/L	0.90 NTU	-19.2 mV	17.50 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/14/2023 3:10:11 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

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: 26.72 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 6.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1540. 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	
2/14/2023 3:10 PM	00:00	5.45 pH	18.53 °C	22.87 µS/cm	6.78 mg/L	0.19 NTU	202.4 mV	26.72 ft	225.00 ml/min
2/14/2023 3:15 PM	05:00	5.41 pH	17.55 °C	23.49 µS/cm	6.99 mg/L	0.12 NTU	201.4 mV	26.90 ft	225.00 ml/min
2/14/2023 3:20 PM	10:00	5.43 pH	17.38 °C	23.65 µS/cm	7.08 mg/L	0.15 NTU	202.8 mV	26.90 ft	225.00 ml/min
2/14/2023 3:25 PM	15:00	5.43 pH	17.23 °C	23.68 µS/cm	7.39 mg/L	0.12 NTU	202.7 mV	26.90 ft	225.00 ml/min
2/14/2023 3:30 PM	20:00	5.44 pH	17.19 °C	23.59 µS/cm	7.59 mg/L	0.30 NTU	200.2 mV	26.90 ft	225.00 ml/min
2/14/2023 3:35 PM	25:00	5.43 pH	17.19 °C	23.48 µS/cm	7.99 mg/L	0.18 NTU	197.3 mV	26.90 ft	225.00 ml/min
2/14/2023 3:40 PM	30:00	5.44 pH	17.16 °C	23.56 µS/cm	8.22 mg/L	0.11 NTU	194.4 mV	26.90 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/14/2023 1:00:11 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

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: 19.88 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 12.3 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 41 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1420. 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	
2/14/2023 1:00 PM	00:00	6.66 pH	17.05 °C	109.62 µS/cm	2.15 mg/L	1.38 NTU	1.6 mV	19.88 ft	175.00 ml/min
2/14/2023 1:05 PM	05:00	6.86 pH	17.11 °C	112.37 µS/cm	1.10 mg/L	1.03 NTU	21.5 mV	21.90 ft	175.00 ml/min
2/14/2023 1:10 PM	10:00	6.77 pH	17.24 °C	112.12 µS/cm	0.76 mg/L	1.01 NTU	40.8 mV	22.30 ft	150.00 ml/min
2/14/2023 1:15 PM	15:00	6.71 pH	17.28 °C	111.82 µS/cm	0.60 mg/L	1.20 NTU	55.9 mV	23.20 ft	150.00 ml/min
2/14/2023 1:20 PM	20:00	6.64 pH	17.35 °C	109.80 µS/cm	0.56 mg/L	0.91 NTU	67.1 mV	23.30 ft	150.00 ml/min
2/14/2023 1:25 PM	25:00	6.58 pH	17.37 °C	108.56 µS/cm	0.63 mg/L	0.50 NTU	72.0 mV	23.30 ft	150.00 ml/min
2/14/2023 1:30 PM	30:00	6.54 pH	17.28 °C	105.53 µS/cm	0.56 mg/L	0.46 NTU	75.9 mV	23.30 ft	150.00 ml/min
2/14/2023 1:35 PM	35:00	6.45 pH	17.28 °C	97.91 µS/cm	0.66 mg/L	0.35 NTU	80.1 mV	23.30 ft	150.00 ml/min
2/14/2023 1:40 PM	40:00	6.38 pH	17.23 °C	91.15 µS/cm	0.88 mg/L	0.39 NTU	86.0 mV	23.30 ft	150.00 ml/min
2/14/2023 1:45 PM	45:00	6.28 pH	17.17 °C	82.43 µS/cm	1.11 mg/L	0.30 NTU	93.2 mV	23.30 ft	150.00 ml/min
2/14/2023 1:50 PM	50:00	6.19 pH	17.10 °C	75.26 µS/cm	1.41 mg/L	0.22 NTU	100.5 mV	23.30 ft	150.00 ml/min
2/14/2023 1:55 PM	55:00	6.09 pH	17.12 °C	69.66 µS/cm	1.64 mg/L	0.21 NTU	107.8 mV	23.30 ft	150.00 ml/min
2/14/2023 2:00 PM	01:00:00	6.03 pH	17.11 °C	64.85 µS/cm	1.86 mg/L	0.25 NTU	113.1 mV	23.30 ft	150.00 ml/min
2/14/2023 2:05 PM	01:05:00	5.98 pH	17.10 °C	62.49 µS/cm	1.95 mg/L	0.20 NTU	117.5 mV	23.30 ft	150.00 ml/min
2/14/2023 2:10 PM	01:10:00	5.93 pH	17.14 °C	60.12 µS/cm	2.05 mg/L	0.19 NTU	120.9 mV	23.30 ft	150.00 ml/min

2/14/2023 2:15 PM	01:15:00	5.90 pH	17.08 °C	58.72 µS/cm	2.14 mg/L	0.39 NTU	124.5 mV	23.30 ft	150.00 ml/min
2/14/2023 2:20 PM	01:20:00	5.89 pH	17.10 °C	57.94 µS/cm	2.21 mg/L	0.34 NTU	125.5 mV	23.30 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/16/2023 2:07:06 PM

Project: Plant Wansley Ash Pond

Operator Name: D. Johnson

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: 2.42 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 54 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 27.3 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
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Test Notes:

Sunny, 71 degrees F. Sample Time 1452

FD-03 here.

Realized flow cell was set up incorrectly at 25 minutes. Readjusted flow cell. This corrected the conductivity readings and is the reason for the jump after 25 minutes.

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	+/- 100	+/- 0.3	
2/16/2023 2:07 PM	00:00	6.55 pH	22.29 °C	29.35 µS/cm	4.72 mg/L	5.03 NTU	142.3 mV	2.42 ft	200.00 ml/min
2/16/2023 2:12 PM	05:00	5.63 pH	18.12 °C	29.19 µS/cm	1.98 mg/L	4.16 NTU	116.8 mV	3.20 ft	200.00 ml/min
2/16/2023 2:17 PM	10:00	5.33 pH	17.33 °C	13.39 µS/cm	1.96 mg/L	3.65 NTU	120.2 mV	3.70 ft	200.00 ml/min
2/16/2023 2:22 PM	15:00	5.38 pH	17.21 °C	5.81 µS/cm	1.81 mg/L	3.02 NTU	114.5 mV	4.10 ft	200.00 ml/min
2/16/2023 2:27 PM	20:00	5.34 pH	17.23 °C	5.82 µS/cm	1.83 mg/L	2.22 NTU	117.3 mV	4.10 ft	200.00 ml/min
2/16/2023 2:32 PM	25:00	5.29 pH	17.25 °C	6.36 µS/cm	2.10 mg/L	1.45 NTU	110.6 mV	4.70 ft	200.00 ml/min
2/16/2023 2:37 PM	30:00	5.23 pH	17.23 °C	804.32 µS/cm	1.03 mg/L	1.52 NTU	95.7 mV	4.70 ft	200.00 ml/min
2/16/2023 2:42 PM	35:00	5.23 pH	17.20 °C	810.97 µS/cm	1.01 mg/L	1.50 NTU	96.1 mV	4.70 ft	200.00 ml/min
2/16/2023 2:47 PM	40:00	5.22 pH	17.23 °C	822.64 µS/cm	1.02 mg/L	1.43 NTU	96.3 mV	4.70 ft	200.00 ml/min
2/16/2023 2:52 PM	45:00	5.22 pH	17.19 °C	826.55 µS/cm	1.04 mg/L	1.47 NTU	96.2 mV	4.70 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/15/2023 3:45:16 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.08 ft Total Depth: 61.08 ft Initial Depth to Water: 19.06 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 56 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 34.08 in	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Overcast, sampled at 1615

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
2/15/2023 3:45 PM	00:00	5.90 pH	19.64 °C	193.46 µS/cm	1.60 mg/L	8.91 NTU	135.0 mV	19.06 ft	125.00 ml/min
2/15/2023 3:50 PM	05:00	5.88 pH	19.15 °C	192.56 µS/cm	1.28 mg/L	5.25 NTU	133.0 mV	20.30 ft	125.00 ml/min
2/15/2023 3:55 PM	10:00	5.87 pH	19.12 °C	192.92 µS/cm	1.24 mg/L	6.08 NTU	132.4 mV	21.00 ft	125.00 ml/min
2/15/2023 4:00 PM	15:00	5.86 pH	19.06 °C	192.35 µS/cm	1.24 mg/L	2.39 NTU	131.6 mV	21.50 ft	125.00 ml/min
2/15/2023 4:05 PM	20:00	5.87 pH	19.01 °C	192.18 µS/cm	1.21 mg/L	1.43 NTU	130.6 mV	21.80 ft	100.00 ml/min
2/15/2023 4:10 PM	25:00	5.86 pH	18.98 °C	191.36 µS/cm	1.16 mg/L	1.34 NTU	130.2 mV	21.90 ft	100.00 ml/min
2/15/2023 4:15 PM	30:00	5.86 pH	18.95 °C	191.07 µS/cm	1.14 mg/L	2.33 NTU	129.5 mV	21.90 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/16/2023 12:01:45 PM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

Location Name: WGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 138.9 ft Total Depth: 148.98 ft Initial Depth to Water: 20.71 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 143.9 ft Estimated Total Volume Pumped: 3.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 50 ml/min Final Draw Down: 5.9 in	Instrument Used: Aqua TROLL 400 Serial Number: 877800
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Test Notes:

Sampled at 1318 on 2-16-23. Cloudy, 69. WAN-AP1-FB-08 here at 1225.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.1	
2/16/2023 12:01 PM	00:00	7.02 pH	21.67 °C	0.00 µS/cm	8.62 mg/L	5.00 NTU	93.4 mV	20.71 ft	75.00 ml/min
2/16/2023 12:06 PM	05:00	6.88 pH	21.13 °C	57.13 µS/cm	8.79 mg/L	3.90 NTU	89.6 mV	20.71 ft	50.00 ml/min
2/16/2023 12:11 PM	10:00	7.00 pH	19.82 °C	56.70 µS/cm	9.69 mg/L	4.10 NTU	87.5 mV	20.90 ft	50.00 ml/min
2/16/2023 12:16 PM	15:00	6.99 pH	19.68 °C	57.32 µS/cm	9.30 mg/L	4.10 NTU	87.9 mV	20.90 ft	50.00 ml/min
2/16/2023 12:21 PM	20:00	6.90 pH	19.93 °C	57.65 µS/cm	8.09 mg/L	3.60 NTU	89.6 mV	20.90 ft	50.00 ml/min
2/16/2023 12:26 PM	25:00	6.71 pH	20.24 °C	58.25 µS/cm	6.68 mg/L	3.50 NTU	92.2 mV	20.90 ft	50.00 ml/min
2/16/2023 12:31 PM	30:00	6.58 pH	20.66 °C	58.67 µS/cm	5.47 mg/L	2.50 NTU	94.4 mV	20.90 ft	50.00 ml/min
2/16/2023 12:36 PM	35:00	6.47 pH	20.97 °C	59.27 µS/cm	4.63 mg/L	2.40 NTU	96.0 mV	21.00 ft	50.00 ml/min
2/16/2023 12:41 PM	40:00	6.40 pH	21.24 °C	59.97 µS/cm	4.45 mg/L	2.00 NTU	98.3 mV	21.00 ft	50.00 ml/min
2/16/2023 12:46 PM	45:00	6.41 pH	20.22 °C	59.27 µS/cm	3.22 mg/L	1.10 NTU	112.6 mV	21.00 ft	50.00 ml/min
2/16/2023 12:51 PM	50:00	6.40 pH	19.57 °C	58.31 µS/cm	3.10 mg/L	1.20 NTU	101.7 mV	21.10 ft	50.00 ml/min
2/16/2023 12:56 PM	55:00	6.35 pH	19.34 °C	56.75 µS/cm	3.49 mg/L	1.50 NTU	101.0 mV	21.20 ft	50.00 ml/min
2/16/2023 1:01 PM	01:00:00	6.42 pH	19.48 °C	57.13 µS/cm	3.71 mg/L	1.40 NTU	101.9 mV	21.20 ft	50.00 ml/min
2/16/2023 1:06 PM	01:05:00	6.39 pH	20.40 °C	58.85 µS/cm	4.55 mg/L	2.10 NTU	99.1 mV	21.20 ft	50.00 ml/min
2/16/2023 1:11 PM	01:10:00	6.39 pH	21.15 °C	57.40 µS/cm	4.84 mg/L	2.20 NTU	99.1 mV	21.20 ft	50.00 ml/min

2/16/2023 1:16 PM	01:15:00	6.39 pH	21.51 °C	57.50 µS/cm	4.78 mg/L	2.10 NTU	99.8 mV	21.20 ft	50.00 ml/min
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Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/16/2023 11:25:11 AM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

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: 27.13 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 44 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 30.84 in	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Cloudy, sampled at 1155

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
2/16/2023 11:25 AM	00:00	6.18 pH	18.03 °C	35.86 µS/cm	7.51 mg/L	3.98 NTU	35.6 mV	27.13 ft	200.00 ml/min
2/16/2023 11:30 AM	05:00	5.82 pH	17.94 °C	34.30 µS/cm	7.42 mg/L	2.62 NTU	57.9 mV	29.30 ft	200.00 ml/min
2/16/2023 11:35 AM	10:00	5.74 pH	17.88 °C	34.31 µS/cm	7.29 mg/L	1.87 NTU	71.0 mV	29.60 ft	200.00 ml/min
2/16/2023 11:40 AM	15:00	5.71 pH	17.89 °C	34.87 µS/cm	7.25 mg/L	2.39 NTU	78.5 mV	29.70 ft	200.00 ml/min
2/16/2023 11:45 AM	20:00	5.69 pH	17.87 °C	35.33 µS/cm	7.28 mg/L	2.10 NTU	83.3 mV	29.70 ft	200.00 ml/min
2/16/2023 11:50 AM	25:00	5.68 pH	17.78 °C	35.88 µS/cm	7.39 mg/L	1.30 NTU	86.5 mV	29.70 ft	200.00 ml/min
2/16/2023 11:55 AM	30:00	5.69 pH	17.97 °C	36.94 µS/cm	7.41 mg/L	1.41 NTU	88.8 mV	29.70 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/16/2023 9:15:06 AM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

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: 26.43 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 71 ft Estimated Total Volume Pumped: 27.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 275 ml/min Final Draw Down: 4.44 in	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Cloudy, sampled at 1055, WAN-AP1-EB-02 here at 0910

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
2/16/2023 9:15 AM	00:00	6.10 pH	16.39 °C	145.44 µS/cm	3.22 mg/L	689.00 NTU	68.8 mV	26.43 ft	275.00 ml/min
2/16/2023 9:20 AM	05:00	6.39 pH	17.03 °C	111.53 µS/cm	0.37 mg/L	587.00 NTU	60.9 mV	26.60 ft	275.00 ml/min
2/16/2023 9:25 AM	10:00	6.39 pH	17.07 °C	111.39 µS/cm	0.16 mg/L	302.00 NTU	55.7 mV	26.70 ft	275.00 ml/min
2/16/2023 9:30 AM	15:00	6.42 pH	17.08 °C	112.85 µS/cm	0.14 mg/L	122.00 NTU	50.1 mV	26.70 ft	275.00 ml/min
2/16/2023 9:35 AM	20:00	6.43 pH	17.03 °C	114.43 µS/cm	0.14 mg/L	99.80 NTU	46.2 mV	26.70 ft	275.00 ml/min
2/16/2023 9:40 AM	25:00	6.45 pH	17.05 °C	115.92 µS/cm	0.15 mg/L	65.80 NTU	42.5 mV	26.70 ft	275.00 ml/min
2/16/2023 9:45 AM	30:00	6.48 pH	17.09 °C	117.09 µS/cm	0.16 mg/L	23.50 NTU	39.0 mV	26.70 ft	275.00 ml/min
2/16/2023 9:50 AM	35:00	6.48 pH	17.11 °C	117.87 µS/cm	0.16 mg/L	14.00 NTU	36.4 mV	26.80 ft	275.00 ml/min
2/16/2023 9:55 AM	40:00	6.51 pH	17.14 °C	118.31 µS/cm	0.16 mg/L	13.70 NTU	33.1 mV	26.80 ft	275.00 ml/min
2/16/2023 10:00 AM	45:00	6.52 pH	17.15 °C	118.75 µS/cm	0.17 mg/L	13.00 NTU	30.4 mV	26.80 ft	275.00 ml/min
2/16/2023 10:05 AM	50:00	6.52 pH	17.19 °C	118.50 µS/cm	0.17 mg/L	12.20 NTU	29.2 mV	26.80 ft	275.00 ml/min
2/16/2023 10:10 AM	55:00	6.55 pH	17.24 °C	118.53 µS/cm	0.17 mg/L	10.20 NTU	26.2 mV	26.80 ft	275.00 ml/min
2/16/2023 10:15 AM	01:00:00	6.55 pH	17.27 °C	118.54 µS/cm	0.17 mg/L	9.98 NTU	24.2 mV	26.80 ft	275.00 ml/min
2/16/2023 10:20 AM	01:05:00	6.56 pH	17.49 °C	118.24 µS/cm	0.17 mg/L	9.66 NTU	22.6 mV	26.80 ft	275.00 ml/min
2/16/2023 10:25 AM	01:10:00	6.58 pH	17.41 °C	118.36 µS/cm	0.17 mg/L	8.12 NTU	20.8 mV	26.80 ft	275.00 ml/min

2/16/2023 10:30 AM	01:15:00	6.57 pH	17.36 °C	118.19 µS/cm	0.18 mg/L	7.02 NTU	20.4 mV	26.80 ft	275.00 ml/min
2/16/2023 10:35 AM	01:20:00	6.59 pH	17.42 °C	117.76 µS/cm	0.18 mg/L	6.78 NTU	19.3 mV	26.80 ft	275.00 ml/min
2/16/2023 10:40 AM	01:25:00	6.59 pH	17.38 °C	117.55 µS/cm	0.19 mg/L	6.15 NTU	18.7 mV	26.80 ft	275.00 ml/min
2/16/2023 10:45 AM	01:30:00	6.59 pH	17.47 °C	116.95 µS/cm	0.19 mg/L	5.46 NTU	18.4 mV	26.80 ft	275.00 ml/min
2/16/2023 10:50 AM	01:35:00	6.61 pH	17.49 °C	117.07 µS/cm	0.19 mg/L	4.47 NTU	16.4 mV	26.80 ft	275.00 ml/min
2/16/2023 10:55 AM	01:40:00	6.61 pH	17.57 °C	116.73 µS/cm	0.20 mg/L	4.57 NTU	16.7 mV	26.80 ft	275.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/16/2023 2:55:08 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

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: 18.83 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 3.55 liter Flow Cell Volume: 90 ml Final Flow Rate: 105 ml/min Final Draw Down: 32.04 in	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Cloudy, sampled at 1525

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
2/16/2023 2:55 PM	00:00	6.18 pH	18.88 °C	63.18 µS/cm	1.20 mg/L	5.90 NTU	136.8 mV	18.83 ft	125.00 ml/min
2/16/2023 3:00 PM	05:00	6.27 pH	18.56 °C	63.51 µS/cm	1.98 mg/L	3.70 NTU	132.8 mV	20.50 ft	125.00 ml/min
2/16/2023 3:05 PM	10:00	6.27 pH	18.48 °C	63.09 µS/cm	1.99 mg/L	3.11 NTU	131.6 mV	20.90 ft	125.00 ml/min
2/16/2023 3:10 PM	15:00	6.27 pH	18.42 °C	63.29 µS/cm	2.02 mg/L	2.75 NTU	130.8 mV	21.30 ft	125.00 ml/min
2/16/2023 3:15 PM	20:00	6.26 pH	18.56 °C	63.32 µS/cm	2.06 mg/L	3.01 NTU	130.1 mV	21.40 ft	105.00 ml/min
2/16/2023 3:20 PM	25:00	6.27 pH	18.54 °C	63.16 µS/cm	2.13 mg/L	3.12 NTU	128.7 mV	21.50 ft	105.00 ml/min
2/16/2023 3:25 PM	30:00	6.27 pH	18.57 °C	63.26 µS/cm	2.22 mg/L	3.94 NTU	128.0 mV	21.50 ft	105.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/16/2023 12:55:04 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

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: 19.18 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 4.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 15.84 in	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Cloudy, sampled at 1330

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
2/16/2023 12:55 PM	00:00	5.48 pH	23.46 °C	27.18 µS/cm	6.27 mg/L	6.98 NTU	103.4 mV	19.18 ft	150.00 ml/min
2/16/2023 1:00 PM	05:00	5.37 pH	19.85 °C	28.19 µS/cm	2.27 mg/L	5.01 NTU	108.5 mV	20.10 ft	150.00 ml/min
2/16/2023 1:05 PM	10:00	5.33 pH	19.50 °C	26.06 µS/cm	2.22 mg/L	3.05 NTU	109.8 mV	20.20 ft	150.00 ml/min
2/16/2023 1:10 PM	15:00	5.33 pH	19.69 °C	27.36 µS/cm	2.32 mg/L	2.45 NTU	114.6 mV	20.50 ft	125.00 ml/min
2/16/2023 1:15 PM	20:00	5.36 pH	19.75 °C	28.59 µS/cm	2.17 mg/L	1.69 NTU	117.7 mV	20.50 ft	125.00 ml/min
2/16/2023 1:20 PM	25:00	5.41 pH	19.50 °C	29.62 µS/cm	1.95 mg/L	2.15 NTU	120.0 mV	20.50 ft	125.00 ml/min
2/16/2023 1:25 PM	30:00	5.39 pH	19.32 °C	30.77 µS/cm	1.86 mg/L	1.32 NTU	125.0 mV	20.50 ft	125.00 ml/min
2/16/2023 1:30 PM	35:00	5.40 pH	19.17 °C	30.78 µS/cm	1.77 mg/L	1.23 NTU	125.9 mV	20.50 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/15/2023 10:45:17 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

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: 18.19 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 56 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1115. Cloudy 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	
2/15/2023 10:45 AM	00:00	7.43 pH	15.20 °C	212.35 µS/cm	5.01 mg/L	1.86 NTU	20.7 mV	18.19 ft	100.00 ml/min
2/15/2023 10:50 AM	05:00	7.59 pH	16.21 °C	216.44 µS/cm	2.00 mg/L	1.32 NTU	11.4 mV	20.50 ft	100.00 ml/min
2/15/2023 10:55 AM	10:00	7.65 pH	15.99 °C	204.83 µS/cm	3.56 mg/L	1.15 NTU	23.5 mV	21.90 ft	100.00 ml/min
2/15/2023 11:00 AM	15:00	7.68 pH	15.07 °C	205.23 µS/cm	3.88 mg/L	0.82 NTU	36.4 mV	22.60 ft	100.00 ml/min
2/15/2023 11:05 AM	20:00	7.70 pH	14.86 °C	204.67 µS/cm	4.07 mg/L	0.76 NTU	43.5 mV	22.90 ft	100.00 ml/min
2/15/2023 11:10 AM	25:00	7.70 pH	15.56 °C	204.81 µS/cm	4.25 mg/L	0.56 NTU	54.3 mV	22.90 ft	100.00 ml/min
2/15/2023 11:15 AM	30:00	7.72 pH	16.14 °C	204.20 µS/cm	4.31 mg/L	0.48 NTU	52.8 mV	22.90 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/15/2023 11:50:03 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

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: 17.52 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 5 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1220. Cloudy 60s. FD-01 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	
2/15/2023 11:50 AM	00:00	5.51 pH	16.73 °C	248.46 µS/cm	4.74 mg/L	1.10 NTU	209.4 mV	17.52 ft	250.00 ml/min
2/15/2023 11:55 AM	05:00	5.27 pH	16.82 °C	248.10 µS/cm	4.43 mg/L	0.99 NTU	219.9 mV	17.90 ft	250.00 ml/min
2/15/2023 12:00 PM	10:00	5.20 pH	16.86 °C	249.22 µS/cm	4.44 mg/L	0.88 NTU	275.3 mV	17.90 ft	250.00 ml/min
2/15/2023 12:05 PM	15:00	5.16 pH	16.88 °C	248.22 µS/cm	4.49 mg/L	0.56 NTU	282.3 mV	17.90 ft	250.00 ml/min
2/15/2023 12:10 PM	20:00	5.20 pH	16.87 °C	250.32 µS/cm	4.58 mg/L	0.47 NTU	281.2 mV	17.90 ft	250.00 ml/min
2/15/2023 12:15 PM	25:00	5.19 pH	16.88 °C	251.38 µS/cm	4.58 mg/L	0.51 NTU	279.2 mV	17.90 ft	250.00 ml/min
2/15/2023 12:20 PM	30:00	5.19 pH	16.87 °C	252.95 µS/cm	4.63 mg/L	0.46 NTU	277.4 mV	17.90 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/16/2023 10:20:29 AM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

Location Name: WGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.9 ft Total Depth: 95.94 ft Initial Depth to Water: 28.1 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90.9 ft Estimated Total Volume Pumped: 4.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 9.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 877800
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Test Notes:

Sampled at 1102 on 2-16-23. Cloudy, 64.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.1	
2/16/2023 10:20 AM	00:00	8.00 pH	18.70 °C	24.03 µS/cm	9.24 mg/L	5.00 NTU	247.6 mV	28.10 ft	200.00 ml/min
2/16/2023 10:25 AM	05:00	6.80 pH	16.44 °C	81.41 µS/cm	4.14 mg/L	2.90 NTU	46.0 mV	28.60 ft	100.00 ml/min
2/16/2023 10:30 AM	10:00	6.36 pH	17.10 °C	78.71 µS/cm	1.76 mg/L	3.20 NTU	45.6 mV	28.80 ft	100.00 ml/min
2/16/2023 10:35 AM	15:00	6.31 pH	17.13 °C	81.18 µS/cm	1.87 mg/L	3.10 NTU	64.3 mV	28.90 ft	100.00 ml/min
2/16/2023 10:40 AM	20:00	6.30 pH	17.10 °C	81.10 µS/cm	1.78 mg/L	2.65 NTU	73.0 mV	28.90 ft	100.00 ml/min
2/16/2023 10:45 AM	25:00	6.29 pH	17.13 °C	81.43 µS/cm	1.41 mg/L	2.70 NTU	77.4 mV	28.90 ft	100.00 ml/min
2/16/2023 10:50 AM	30:00	6.29 pH	17.14 °C	81.31 µS/cm	0.72 mg/L	2.50 NTU	79.3 mV	28.90 ft	100.00 ml/min
2/16/2023 10:55 AM	35:00	6.28 pH	17.14 °C	81.22 µS/cm	0.49 mg/L	1.80 NTU	83.2 mV	28.90 ft	100.00 ml/min
2/16/2023 11:00 AM	40:00	6.28 pH	17.19 °C	81.35 µS/cm	0.25 mg/L	1.60 NTU	83.8 mV	28.90 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/16/2023 12:39:07 PM

Project: Plant Wansley Ash Pond

Operator Name: D. Johnson

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: 19.81 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 89 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 4.68 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
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Test Notes:

Partly cloudy, 68 degrees F. Sample time 1309

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	+/- 100	+/- 0.3	
2/16/2023 12:39 PM	00:00	6.54 pH	18.83 °C	149.75 µS/cm	6.77 mg/L	5.48 NTU	124.8 mV	19.81 ft	200.00 ml/min
2/16/2023 12:44 PM	05:00	6.68 pH	17.81 °C	162.46 µS/cm	0.40 mg/L	5.20 NTU	82.9 mV	20.20 ft	200.00 ml/min
2/16/2023 12:49 PM	10:00	6.77 pH	17.84 °C	163.76 µS/cm	0.25 mg/L	6.11 NTU	79.5 mV	20.20 ft	200.00 ml/min
2/16/2023 12:54 PM	15:00	6.79 pH	18.66 °C	163.35 µS/cm	0.31 mg/L	6.00 NTU	80.1 mV	20.20 ft	200.00 ml/min
2/16/2023 12:59 PM	20:00	6.79 pH	18.34 °C	162.84 µS/cm	0.31 mg/L	4.51 NTU	79.3 mV	20.20 ft	200.00 ml/min
2/16/2023 1:04 PM	25:00	6.80 pH	18.48 °C	163.01 µS/cm	0.29 mg/L	3.21 NTU	78.4 mV	20.20 ft	200.00 ml/min
2/16/2023 1:09 PM	30:00	6.80 pH	18.70 °C	163.08 µS/cm	0.27 mg/L	2.31 NTU	77.9 mV	20.20 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/16/2023 9:35:13 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.8 ft Total Depth: 43.87 ft Initial Depth to Water: 27.3 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 7 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1005. Cloudy 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	
2/16/2023 9:35 AM	00:00	5.63 pH	17.21 °C	1,004.6 µS/cm	4.51 mg/L	1.96 NTU	212.1 mV	27.30 ft	150.00 ml/min
2/16/2023 9:40 AM	05:00	5.25 pH	17.90 °C	1,109.5 µS/cm	3.22 mg/L	1.37 NTU	206.6 mV	27.90 ft	150.00 ml/min
2/16/2023 9:45 AM	10:00	5.21 pH	18.13 °C	1,164.6 µS/cm	3.00 mg/L	1.11 NTU	264.0 mV	27.90 ft	150.00 ml/min
2/16/2023 9:50 AM	15:00	5.19 pH	18.17 °C	1,181.7 µS/cm	2.81 mg/L	0.47 NTU	270.4 mV	27.90 ft	150.00 ml/min
2/16/2023 9:55 AM	20:00	5.18 pH	18.26 °C	1,199.1 µS/cm	2.61 mg/L	0.34 NTU	273.7 mV	27.90 ft	150.00 ml/min
2/16/2023 10:00 AM	25:00	5.17 pH	18.36 °C	1,213.3 µS/cm	2.48 mg/L	0.45 NTU	277.4 mV	27.90 ft	150.00 ml/min
2/16/2023 10:05 AM	30:00	5.17 pH	18.48 °C	1,209.5 µS/cm	2.44 mg/L	0.50 NTU	217.8 mV	27.90 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/16/2023 3:25:10 PM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

Location Name: WGWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61.75 ft Total Depth: 71.75 ft Initial Depth to Water: 48.67 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 66.7 ft Estimated Total Volume Pumped: 3.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 60 ml/min Final Draw Down: 43.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 877800
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Test Notes:

Sampled at 1607 on 2-16-23. Cloudy, 73. WAN-AP1-EB-03 here at 1615.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.1	
2/16/2023 3:25 PM	00:00	6.79 pH	23.00 °C	629.95 µS/cm	7.87 mg/L	5.00 NTU	128.9 mV	48.67 ft	100.00 ml/min
2/16/2023 3:30 PM	05:00	6.91 pH	19.21 °C	958.74 µS/cm	3.23 mg/L	3.40 NTU	121.6 mV	49.10 ft	100.00 ml/min
2/16/2023 3:35 PM	10:00	6.95 pH	18.97 °C	975.63 µS/cm	2.54 mg/L	3.70 NTU	132.2 mV	49.70 ft	100.00 ml/min
2/16/2023 3:40 PM	15:00	6.96 pH	18.85 °C	1,002.1 µS/cm	2.02 mg/L	3.46 NTU	129.7 mV	51.00 ft	100.00 ml/min
2/16/2023 3:45 PM	20:00	6.96 pH	18.84 °C	995.70 µS/cm	1.80 mg/L	3.40 NTU	126.9 mV	51.50 ft	100.00 ml/min
2/16/2023 3:50 PM	25:00	6.94 pH	19.11 °C	981.83 µS/cm	2.13 mg/L	3.10 NTU	125.2 mV	51.80 ft	75.00 ml/min
2/16/2023 3:55 PM	30:00	6.93 pH	19.00 °C	971.90 µS/cm	1.88 mg/L	2.20 NTU	123.7 mV	52.10 ft	75.00 ml/min
2/16/2023 4:00 PM	35:00	6.92 pH	19.14 °C	966.23 µS/cm	1.89 mg/L	2.10 NTU	122.8 mV	52.20 ft	60.00 ml/min
2/16/2023 4:05 PM	40:00	6.92 pH	19.07 °C	958.96 µS/cm	2.02 mg/L	2.20 NTU	121.6 mV	52.30 ft	60.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/15/2023 2:00:07 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.88 ft Total Depth: 43.88 ft Initial Depth to Water: 15.21 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 4.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 28.68 in	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Overcast, sampled at 1440

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
2/15/2023 2:00 PM	00:00	5.77 pH	19.41 °C	244.04 µS/cm	6.51 mg/L	7.98 NTU	149.3 mV	15.21 ft	125.00 ml/min
2/15/2023 2:05 PM	05:00	5.49 pH	18.07 °C	276.37 µS/cm	2.19 mg/L	5.69 NTU	149.0 mV	16.10 ft	125.00 ml/min
2/15/2023 2:10 PM	10:00	5.48 pH	17.99 °C	280.54 µS/cm	1.78 mg/L	8.19 NTU	147.8 mV	16.50 ft	100.00 ml/min
2/15/2023 2:15 PM	15:00	5.48 pH	17.90 °C	280.50 µS/cm	1.70 mg/L	9.03 NTU	146.9 mV	17.00 ft	100.00 ml/min
2/15/2023 2:20 PM	20:00	5.47 pH	17.94 °C	280.06 µS/cm	1.62 mg/L	5.23 NTU	146.2 mV	17.30 ft	100.00 ml/min
2/15/2023 2:25 PM	25:00	5.47 pH	17.86 °C	281.72 µS/cm	1.56 mg/L	4.35 NTU	145.5 mV	17.40 ft	100.00 ml/min
2/15/2023 2:30 PM	30:00	5.47 pH	17.85 °C	282.36 µS/cm	1.43 mg/L	3.98 NTU	144.9 mV	17.50 ft	100.00 ml/min
2/15/2023 2:35 PM	35:00	5.47 pH	17.85 °C	283.64 µS/cm	1.36 mg/L	3.81 NTU	144.4 mV	17.60 ft	100.00 ml/min
2/15/2023 2:40 PM	40:00	5.47 pH	17.86 °C	282.64 µS/cm	1.32 mg/L	2.46 NTU	150.5 mV	17.60 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/15/2023 3:45:29 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.7 ft Total Depth: 53.7 ft Initial Depth to Water: 30.27 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 3.9 liter Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 10 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1615. Cloudy 60s. EB-01 here at 1630.

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	
2/15/2023 3:45 PM	00:00	5.57 pH	17.73 °C	75.33 µS/cm	3.93 mg/L	2.16 NTU	211.3 mV	30.27 ft	130.00 ml/min
2/15/2023 3:50 PM	05:00	5.51 pH	17.66 °C	71.24 µS/cm	3.52 mg/L	2.14 NTU	202.8 mV	31.10 ft	130.00 ml/min
2/15/2023 3:55 PM	10:00	5.51 pH	17.68 °C	70.18 µS/cm	3.36 mg/L	1.25 NTU	197.5 mV	31.10 ft	130.00 ml/min
2/15/2023 4:00 PM	15:00	5.48 pH	17.67 °C	70.45 µS/cm	3.37 mg/L	1.46 NTU	194.6 mV	31.10 ft	130.00 ml/min
2/15/2023 4:05 PM	20:00	5.49 pH	17.63 °C	70.41 µS/cm	3.43 mg/L	0.88 NTU	190.8 mV	31.10 ft	130.00 ml/min
2/15/2023 4:10 PM	25:00	5.49 pH	17.63 °C	70.37 µS/cm	3.51 mg/L	0.64 NTU	187.7 mV	31.10 ft	130.00 ml/min
2/15/2023 4:15 PM	30:00	5.49 pH	17.60 °C	70.24 µS/cm	3.59 mg/L	0.50 NTU	185.6 mV	31.10 ft	130.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/15/2023 12:35:10 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-24 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.75 ft Total Depth: 40.75 ft Initial Depth to Water: 11.95 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 10.125 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Overcast, sampled at 1320, WAN-AP1-FB-07 here at 1315

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
2/15/2023 12:35 PM	00:00	5.08 pH	18.03 °C	296.96 µS/cm	4.24 mg/L	9.04 NTU	83.1 mV	11.95 ft	225.00 ml/min
2/15/2023 12:40 PM	05:00	4.65 pH	18.34 °C	339.15 µS/cm	2.33 mg/L	8.64 NTU	114.4 mV	12.20 ft	225.00 ml/min
2/15/2023 12:45 PM	10:00	4.58 pH	18.39 °C	357.65 µS/cm	1.52 mg/L	21.90 NTU	123.9 mV	12.20 ft	225.00 ml/min
2/15/2023 12:50 PM	15:00	4.56 pH	18.43 °C	361.95 µS/cm	1.39 mg/L	13.60 NTU	128.6 mV	12.20 ft	225.00 ml/min
2/15/2023 12:55 PM	20:00	4.54 pH	18.49 °C	364.49 µS/cm	1.38 mg/L	8.12 NTU	133.4 mV	12.20 ft	225.00 ml/min
2/15/2023 1:00 PM	25:00	4.54 pH	18.46 °C	363.79 µS/cm	1.29 mg/L	7.72 NTU	130.5 mV	12.20 ft	225.00 ml/min
2/15/2023 1:05 PM	30:00	4.54 pH	18.41 °C	363.69 µS/cm	1.56 mg/L	4.57 NTU	139.3 mV	12.20 ft	225.00 ml/min
2/15/2023 1:10 PM	35:00	4.53 pH	18.43 °C	363.13 µS/cm	1.50 mg/L	4.68 NTU	142.7 mV	12.20 ft	225.00 ml/min
2/15/2023 1:15 PM	40:00	4.54 pH	18.42 °C	362.48 µS/cm	1.52 mg/L	3.71 NTU	144.9 mV	12.20 ft	225.00 ml/min
2/15/2023 1:20 PM	45:00	4.54 pH	18.43 °C	360.03 µS/cm	1.65 mg/L	3.06 NTU	148.2 mV	12.20 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/15/2023 1:00:06 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-25 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.8 ft Total Depth: 39.83 ft Initial Depth to Water: 16.33 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 24 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 4 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1500. Cloudy 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	
2/15/2023 1:00 PM	00:00	5.34 pH	17.14 °C	333.17 µS/cm	1.04 mg/L	38.70 NTU	226.5 mV	16.33 ft	200.00 ml/min
2/15/2023 1:05 PM	05:00	5.34 pH	17.13 °C	334.76 µS/cm	0.32 mg/L	32.40 NTU	217.9 mV	16.70 ft	200.00 ml/min
2/15/2023 1:10 PM	10:00	5.33 pH	17.14 °C	331.22 µS/cm	0.23 mg/L	23.60 NTU	242.5 mV	16.70 ft	200.00 ml/min
2/15/2023 1:15 PM	15:00	5.34 pH	17.14 °C	329.68 µS/cm	0.20 mg/L	21.90 NTU	211.3 mV	16.70 ft	200.00 ml/min
2/15/2023 1:20 PM	20:00	5.34 pH	17.16 °C	330.59 µS/cm	0.19 mg/L	20.30 NTU	234.6 mV	16.70 ft	200.00 ml/min
2/15/2023 1:25 PM	25:00	5.34 pH	17.20 °C	329.24 µS/cm	0.18 mg/L	18.10 NTU	205.9 mV	16.70 ft	200.00 ml/min
2/15/2023 1:30 PM	30:00	5.33 pH	17.23 °C	329.43 µS/cm	0.18 mg/L	17.90 NTU	228.6 mV	16.70 ft	200.00 ml/min
2/15/2023 1:35 PM	35:00	5.33 pH	17.24 °C	327.84 µS/cm	0.17 mg/L	15.30 NTU	202.6 mV	16.70 ft	200.00 ml/min
2/15/2023 1:40 PM	40:00	5.33 pH	17.28 °C	328.74 µS/cm	0.16 mg/L	14.80 NTU	224.1 mV	16.70 ft	200.00 ml/min
2/15/2023 1:45 PM	45:00	5.34 pH	17.28 °C	328.50 µS/cm	0.16 mg/L	12.00 NTU	224.2 mV	16.70 ft	200.00 ml/min
2/15/2023 1:50 PM	50:00	5.34 pH	17.35 °C	326.35 µS/cm	0.15 mg/L	12.30 NTU	198.7 mV	16.70 ft	200.00 ml/min
2/15/2023 1:55 PM	55:00	5.34 pH	17.40 °C	325.93 µS/cm	0.15 mg/L	10.20 NTU	195.2 mV	16.70 ft	200.00 ml/min
2/15/2023 2:00 PM	01:00:00	5.34 pH	17.46 °C	326.45 µS/cm	0.15 mg/L	9.64 NTU	215.8 mV	16.70 ft	200.00 ml/min
2/15/2023 2:05 PM	01:05:00	5.34 pH	17.50 °C	326.11 µS/cm	0.15 mg/L	8.86 NTU	217.0 mV	16.70 ft	200.00 ml/min
2/15/2023 2:10 PM	01:10:00	5.34 pH	17.41 °C	325.76 µS/cm	0.15 mg/L	7.88 NTU	217.6 mV	16.70 ft	200.00 ml/min

2/15/2023 2:15 PM	01:15:00	5.34 pH	17.37 °C	324.57 µS/cm	0.14 mg/L	7.85 NTU	194.4 mV	16.70 ft	200.00 ml/min
2/15/2023 2:20 PM	01:20:00	5.34 pH	17.34 °C	324.59 µS/cm	0.14 mg/L	6.69 NTU	213.0 mV	16.70 ft	200.00 ml/min
2/15/2023 2:25 PM	01:25:00	5.35 pH	17.32 °C	322.84 µS/cm	0.12 mg/L	6.26 NTU	190.9 mV	16.70 ft	200.00 ml/min
2/15/2023 2:30 PM	01:30:00	5.35 pH	17.31 °C	323.28 µS/cm	0.12 mg/L	7.44 NTU	209.3 mV	16.70 ft	200.00 ml/min
2/15/2023 2:35 PM	01:35:00	5.35 pH	17.32 °C	322.45 µS/cm	0.12 mg/L	7.02 NTU	212.0 mV	16.70 ft	200.00 ml/min
2/15/2023 2:40 PM	01:40:00	5.36 pH	17.31 °C	320.38 µS/cm	0.12 mg/L	6.48 NTU	188.5 mV	16.70 ft	200.00 ml/min
2/15/2023 2:45 PM	01:45:00	5.36 pH	17.46 °C	320.92 µS/cm	0.12 mg/L	5.70 NTU	206.1 mV	16.70 ft	200.00 ml/min
2/15/2023 2:50 PM	01:50:00	5.35 pH	17.40 °C	320.41 µS/cm	0.12 mg/L	5.75 NTU	208.1 mV	16.70 ft	200.00 ml/min
2/15/2023 2:55 PM	01:55:00	5.35 pH	17.33 °C	319.88 µS/cm	0.12 mg/L	5.13 NTU	208.2 mV	16.70 ft	200.00 ml/min
2/15/2023 3:00 PM	02:00:00	5.36 pH	17.35 °C	319.54 µS/cm	0.11 mg/L	4.47 NTU	207.7 mV	16.70 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/16/2023 10:35:19 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

<p>Location Name: WGWC-26D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 59.57 ft Total Depth: 69.57 ft Initial Depth to Water: 28.78 ft</p>	<p>Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 64 ft Estimated Total Volume Pumped: 37.1 liter Flow Cell Volume: 90 ml Final Flow Rate: 275 ml/min Final Draw Down: 36 in</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 884186</p>
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Test Notes:

Sample time 1250. Cloudy 60s. FD-02 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	
2/16/2023 10:35 AM	00:00	5.71 pH	18.88 °C	1,247.2 µS/cm	2.60 mg/L	57.20 NTU	168.4 mV	28.78 ft	275.00 ml/min
2/16/2023 10:40 AM	05:00	5.57 pH	18.81 °C	1,160.2 µS/cm	1.22 mg/L	54.40 NTU	160.1 mV	30.90 ft	275.00 ml/min
2/16/2023 10:45 AM	10:00	5.56 pH	18.89 °C	1,256.6 µS/cm	0.80 mg/L	34.80 NTU	135.6 mV	31.40 ft	275.00 ml/min
2/16/2023 10:50 AM	15:00	5.58 pH	18.88 °C	1,341.5 µS/cm	0.72 mg/L	19.10 NTU	140.9 mV	31.80 ft	275.00 ml/min
2/16/2023 10:55 AM	20:00	5.59 pH	18.99 °C	1,339.7 µS/cm	0.75 mg/L	16.90 NTU	131.4 mV	31.80 ft	275.00 ml/min
2/16/2023 11:00 AM	25:00	5.59 pH	18.91 °C	1,339.4 µS/cm	0.81 mg/L	12.10 NTU	125.2 mV	31.80 ft	275.00 ml/min
2/16/2023 11:05 AM	30:00	5.59 pH	18.90 °C	1,338.2 µS/cm	0.87 mg/L	11.90 NTU	119.0 mV	31.80 ft	275.00 ml/min
2/16/2023 11:10 AM	35:00	5.58 pH	18.84 °C	1,336.5 µS/cm	0.93 mg/L	10.10 NTU	114.5 mV	31.80 ft	275.00 ml/min
2/16/2023 11:15 AM	40:00	5.57 pH	18.82 °C	1,341.0 µS/cm	0.95 mg/L	9.67 NTU	96.8 mV	31.80 ft	275.00 ml/min
2/16/2023 11:20 AM	45:00	5.56 pH	18.86 °C	1,331.6 µS/cm	0.98 mg/L	8.28 NTU	106.9 mV	31.80 ft	275.00 ml/min
2/16/2023 11:25 AM	50:00	5.55 pH	19.09 °C	1,313.8 µS/cm	0.95 mg/L	7.25 NTU	92.6 mV	31.80 ft	275.00 ml/min
2/16/2023 11:30 AM	55:00	5.55 pH	19.01 °C	1,333.2 µS/cm	0.97 mg/L	6.38 NTU	90.9 mV	31.80 ft	275.00 ml/min
2/16/2023 11:35 AM	01:00:00	5.55 pH	18.97 °C	1,326.1 µS/cm	0.97 mg/L	6.33 NTU	101.5 mV	31.80 ft	275.00 ml/min
2/16/2023 11:40 AM	01:05:00	5.54 pH	18.95 °C	1,322.4 µS/cm	0.97 mg/L	6.41 NTU	90.4 mV	31.80 ft	275.00 ml/min
2/16/2023 11:45 AM	01:10:00	5.54 pH	18.93 °C	1,332.0 µS/cm	0.96 mg/L	6.13 NTU	89.1 mV	31.80 ft	275.00 ml/min

2/16/2023 11:50 AM	01:15:00	5.54 pH	18.89 °C	1,332.1 µS/cm	0.95 mg/L	5.28 NTU	87.3 mV	31.80 ft	275.00 ml/min
2/16/2023 11:55 AM	01:20:00	5.54 pH	19.10 °C	1,324.1 µS/cm	0.98 mg/L	5.97 NTU	99.2 mV	31.80 ft	275.00 ml/min
2/16/2023 12:00 PM	01:25:00	5.54 pH	19.70 °C	1,321.9 µS/cm	1.00 mg/L	5.92 NTU	105.9 mV	31.80 ft	275.00 ml/min
2/16/2023 12:05 PM	01:30:00	5.56 pH	18.95 °C	1,330.1 µS/cm	0.89 mg/L	6.96 NTU	109.4 mV	31.80 ft	275.00 ml/min
2/16/2023 12:10 PM	01:35:00	5.57 pH	19.00 °C	1,327.4 µS/cm	0.95 mg/L	6.28 NTU	97.1 mV	31.80 ft	275.00 ml/min
2/16/2023 12:15 PM	01:40:00	5.53 pH	18.97 °C	1,320.7 µS/cm	0.96 mg/L	6.65 NTU	95.2 mV	31.80 ft	275.00 ml/min
2/16/2023 12:20 PM	01:45:00	5.52 pH	18.99 °C	1,323.5 µS/cm	0.96 mg/L	7.35 NTU	112.8 mV	31.80 ft	275.00 ml/min
2/16/2023 12:25 PM	01:50:00	5.52 pH	19.50 °C	1,308.8 µS/cm	0.96 mg/L	6.29 NTU	98.5 mV	31.80 ft	275.00 ml/min
2/16/2023 12:30 PM	01:55:00	5.52 pH	19.61 °C	1,318.5 µS/cm	0.96 mg/L	6.32 NTU	112.9 mV	31.80 ft	275.00 ml/min
2/16/2023 12:35 PM	02:00:00	5.52 pH	19.59 °C	1,291.5 µS/cm	0.96 mg/L	5.40 NTU	98.7 mV	31.80 ft	275.00 ml/min
2/16/2023 12:40 PM	02:05:00	5.52 pH	19.32 °C	1,324.3 µS/cm	0.97 mg/L	5.56 NTU	113.7 mV	31.80 ft	275.00 ml/min
2/16/2023 12:45 PM	02:10:00	5.52 pH	19.24 °C	1,324.2 µS/cm	0.98 mg/L	5.33 NTU	113.9 mV	31.80 ft	275.00 ml/min
2/16/2023 12:50 PM	02:15:00	5.52 pH	19.42 °C	1,323.0 µS/cm	0.97 mg/L	4.83 NTU	114.0 mV	31.80 ft	275.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/16/2023 1:45:04 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-27 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.1 ft Total Depth: 42.18 ft Initial Depth to Water: 6.74 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 19.7 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 70 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1525. Cloudy 60s. FB-09 here at 1555.

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	
2/16/2023 1:45 PM	00:00	6.36 pH	18.30 °C	532.90 µS/cm	1.04 mg/L	43.90 NTU	43.9 mV	6.74 ft	275.00 ml/min
2/16/2023 1:50 PM	05:00	6.29 pH	18.26 °C	468.73 µS/cm	1.42 mg/L	39.50 NTU	45.1 mV	10.40 ft	275.00 ml/min
2/16/2023 1:55 PM	10:00	6.25 pH	18.26 °C	426.11 µS/cm	1.74 mg/L	13.90 NTU	48.8 mV	11.00 ft	275.00 ml/min
2/16/2023 2:00 PM	15:00	6.20 pH	18.52 °C	393.41 µS/cm	2.00 mg/L	7.99 NTU	51.9 mV	12.10 ft	250.00 ml/min
2/16/2023 2:05 PM	20:00	6.15 pH	18.65 °C	367.74 µS/cm	2.33 mg/L	7.30 NTU	57.6 mV	12.40 ft	250.00 ml/min
2/16/2023 2:10 PM	25:00	6.11 pH	18.61 °C	318.77 µS/cm	2.77 mg/L	6.58 NTU	59.3 mV	12.60 ft	175.00 ml/min
2/16/2023 2:15 PM	30:00	6.09 pH	18.44 °C	315.30 µS/cm	2.84 mg/L	6.26 NTU	60.1 mV	12.60 ft	175.00 ml/min
2/16/2023 2:20 PM	35:00	6.10 pH	18.39 °C	321.25 µS/cm	2.77 mg/L	5.44 NTU	64.4 mV	12.60 ft	175.00 ml/min
2/16/2023 2:25 PM	40:00	6.09 pH	18.79 °C	321.80 µS/cm	2.51 mg/L	4.22 NTU	68.4 mV	12.60 ft	175.00 ml/min
2/16/2023 2:30 PM	45:00	6.10 pH	19.16 °C	313.39 µS/cm	2.64 mg/L	4.09 NTU	68.0 mV	12.60 ft	175.00 ml/min
2/16/2023 2:35 PM	50:00	6.06 pH	18.37 °C	280.25 µS/cm	3.08 mg/L	4.02 NTU	67.9 mV	12.60 ft	175.00 ml/min
2/16/2023 2:40 PM	55:00	6.03 pH	18.39 °C	259.98 µS/cm	3.32 mg/L	3.70 NTU	75.4 mV	12.60 ft	175.00 ml/min
2/16/2023 2:45 PM	01:00:00	6.02 pH	18.52 °C	253.68 µS/cm	3.51 mg/L	4.07 NTU	78.8 mV	12.60 ft	175.00 ml/min
2/16/2023 2:50 PM	01:05:00	6.01 pH	18.52 °C	239.26 µS/cm	3.66 mg/L	5.40 NTU	80.9 mV	12.60 ft	175.00 ml/min
2/16/2023 2:55 PM	01:10:00	6.00 pH	18.54 °C	229.91 µS/cm	3.79 mg/L	2.39 NTU	82.9 mV	12.60 ft	175.00 ml/min

2/16/2023 3:00 PM	01:15:00	5.98 pH	18.53 °C	225.38 µS/cm	3.93 mg/L	1.96 NTU	85.5 mV	12.60 ft	175.00 ml/min
2/16/2023 3:05 PM	01:20:00	5.97 pH	18.48 °C	217.47 µS/cm	3.95 mg/L	2.33 NTU	87.8 mV	12.60 ft	175.00 ml/min
2/16/2023 3:10 PM	01:25:00	5.95 pH	18.61 °C	206.32 µS/cm	4.06 mg/L	1.33 NTU	90.6 mV	12.60 ft	175.00 ml/min
2/16/2023 3:15 PM	01:30:00	5.93 pH	18.65 °C	199.55 µS/cm	4.25 mg/L	1.59 NTU	93.9 mV	12.60 ft	175.00 ml/min
2/16/2023 3:20 PM	01:35:00	5.94 pH	18.64 °C	192.88 µS/cm	4.33 mg/L	1.48 NTU	94.6 mV	12.60 ft	175.00 ml/min
2/16/2023 3:25 PM	01:40:00	5.91 pH	18.63 °C	191.43 µS/cm	4.45 mg/L	2.63 NTU	85.2 mV	12.60 ft	175.00 ml/min

Samples

Sample ID:	Description:
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FIELD STAFF: AB/HA/TJ

Georgia Power Site Sampling Data (GW)

Site Name : Plant Wansley - Ash Pond

Dates : 2/14 - 2/16/23

Sample ID	Sample Date	Sample Time	Additional Comments
✓ WAN-WGWA-1	02/14/23	1055	pH= 5.37
✓ WAN-WGWA-2	02/14/23	1210	pH= 6.06
✓ WAN-WGWA-3	02/14/23	1710	pH= 5.49
✓ WAN-WGWA-4	02/15/23	1005	pH= 7.21
✓ WAN-WGWA-5	02/14/23	1425	pH= 5.30
✓ WAN-WGWA-6	02/14/23	1553	pH= 7.78
✓ WAN-WGWA-7	02/14/23	1540	pH= 5.44
✓ WAN-WGWA-18	02/14/23	1420	pH= 5.89
✓ WAN-WGWC-8	02/16/23	1452	pH= 5.22
✓ WAN-WGWC-9	02/15/23	1615	pH= 5.86
✓ WAN-WGWC-10	02/16/23	1318	pH= 6.39
✓ WAN-WGWC-11	02/16/23	1155	pH= 5.69
✓ WAN-WGWC-12	02/16/23	1055	pH= 6.61
✓ WAN-WGWC-13	02/16/23	1525	pH= 6.27
✓ WAN-WGWC-14A	02/16/23	1330	pH= 5.40
✓ WAN-WGWC-15	02/15/23	1115	pH= 7.72
✓ WAN-WGWC-16	02/15/23	1220	pH= 5.19
✓ WAN-WGWC-17	02/16/23	1102	pH= 6.28
✓ WAN-WGWC-19	02/16/23	1309	pH= 6.80
✓ WAN-WGWC-20	02/16/23	1005	pH= 5.17
✓ WAN-WGWC-21	02/16/23	1607	pH= 6.92
✓ WAN-WGWC-22	02/15/23	1440	pH= 5.47
✓ WAN-WGWC-23	02/15/23	1615	pH= 5.49
✓ WAN-WGWC-24	02/15/23	1320	pH= 4.54
✓ WAN-WGWC-25	02/15/23	1500	pH= 5.36
✓ WAN-WGWC-26D	02/16/23	1250	pH= 5.52
✓ WAN-WGWC-27	02/16/23	1525	pH= 5.91

FIELD STAFF: AS/HA/TJ

Georgia Power Site Sampling Data (GW)			
Site Name : Plant Wansley - Ash Pond			Dates : 2/14-16/23
Sample ID	Sample Date	Sample Time	Additional Comments
✓ WAN-AP1-FD-01	02/15/23	—	Parent Sample: WGWC-16 ✓
✓ WAN-AP1-FD-02	02/16/23	—	Parent Sample: WGWC-26D ✓
✓ WAN-AP1-FD-03	02/16/23	—	Parent Sample: WGWC-8 ✓
✓ WAN-AP1-FB-07	02/15/23	1315	Poured at: WGWC-24 ✓
✓ WAN-AP1-FB-08	02/16/23	1225	Poured at: WGWC-10 ✓
✓ WAN-AP1-FB-09	02/16/23	1555	Poured at: WGWC-27 ✓
✓ WAN-AP1-EB-01	02/15/23	1630	Equipment Type: Peri Pump
WAN-AP1-EB-02	02/16/23	0910	Equipment Type: WL
WAN-AP1-EB-03	02/16/23	1615	Equipment Type: Gloves
Matrix codes WG for groundwater, WS for surface water, WW for wastewater, WQ for field blanks and equipment blanks			
FD for blind field duplicates with WG matrix			
Task_Code: WAN-CCR-ASSMT-2023S1			
Additional comments :			
Note if Dissolved metals were taken			
Put pH on COCs			

Plant Wansley Ash Pond

Staff: HA/AS

Start Date: 2/13/23

End Date: 2/13/23

Start time: 1230

End time: 1600

Well ID	Total Depth (ft btoc)	Depth to Water (ft btoc)
WGWA-1	129.86	25.66
WGWA-2	102.65	8.19
WGWA-3	19.00	2.62
WGWA-4	73.90	4.25
WGWA-5	23.60	13.47
WGWA-6	104.50	16.65
WGWA-7	39.60	26.82
WGWA-18	39.60	19.79
WGWC-8	59.63	2.12
WGWC-9	61.08	19.11
WGWC-10	148.98	20.80
WGWC-11	49.50	27.13
WGWC-12	76.57	26.46
WGWC-13	95.55	18.71
WGWC-14	43.08	18.67
WGWC-14A	43.08	19.29
WGWC-15	53.36	18.10
WGWC-16	34.78	17.41
WGWC-17	95.94	28.08
WGWC-19	94.84	19.70
WGWC-20	43.87	27.36

Well ID	Total Depth (ft btoc)	Depth to Water (ft btoc)
WGWC-21	71.75	48.77
WGWC-22	43.88	15.22
WGWC-23	53.70	30.26
WGWC-24	40.75	11.61
WGWC-25	39.83	16.23
WGWC-26D	69.57	28.77
WGWC-27	42.18	6.75
PZ-1	46.10	38.71
PZ-4	17.00	10.82
PZ-6		19.63
PZ-8	37.50	31.18
PZ-10	30.00	23.51
PZ-11	30.00	20.95
PZ-12	49.40	29.54
PZ-15	37.00	30.80
PZ-16	24.50	10.93
PZ-17	48.00	37.63
PZ-18	37.00	15.31
PZ-20	35.00	14.89
WAMW-1	124.14	20.43
WAMW-2	86.14	12.99

Low-Flow Test Report:

Test Date / Time: 8/17/2023 11:11:54 AM

Project: Plant Wansley Ash Pond

Operator Name: Taylor 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: 16.2 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 102 ft Pump Intake From TOC: 75 ft Estimated Total Volume Pumped: 6050 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 3.17 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1146. Cloudy 78 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/17/2023 11:11 AM	00:00	5.78 pH	31.42 °C	177.12 µS/cm	2.68 mg/L	14.70 NTU	191.4 mV	16.82 ft	190.00 ml/min
8/17/2023 11:16 AM	05:00	6.02 pH	23.46 °C	200.66 µS/cm	0.27 mg/L	12.20 NTU	163.1 mV	17.71 ft	190.00 ml/min
8/17/2023 11:21 AM	10:00	6.08 pH	22.75 °C	201.74 µS/cm	0.19 mg/L	10.70 NTU	151.0 mV	18.27 ft	190.00 ml/min
8/17/2023 11:26 AM	15:00	6.09 pH	22.96 °C	201.03 µS/cm	0.16 mg/L	8.78 NTU	138.5 mV	18.71 ft	190.00 ml/min
8/17/2023 11:31 AM	20:00	6.11 pH	22.85 °C	203.64 µS/cm	0.16 mg/L	7.95 NTU	131.1 mV	19.28 ft	150.00 ml/min
8/17/2023 11:36 AM	25:00	6.13 pH	23.03 °C	212.60 µS/cm	0.15 mg/L	6.00 NTU	127.3 mV	19.33 ft	150.00 ml/min
8/17/2023 11:41 AM	30:00	6.12 pH	23.37 °C	211.15 µS/cm	0.15 mg/L	5.27 NTU	123.7 mV	19.37 ft	150.00 ml/min
8/17/2023 11:46 AM	35:00	6.11 pH	23.45 °C	214.85 µS/cm	0.14 mg/L	4.49 NTU	122.6 mV	19.37 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/14/2023 3:27:01 PM

Project: Plant Wansley Ash Pond

Operator Name: Taylor Goble

Location Name: WGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 119.86 ft Total Depth: 129.86 ft Initial Depth to Water: 30.46 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 129 ft Pump Intake From TOC: 124 ft Estimated Total Volume Pumped: 9216 ml Flow Cell Volume: 90 ml Final Flow Rate: 270 ml/min Final Draw Down: 0.25 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1601. Sunny 94 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/14/2023 3:27 PM	00:00	6.64 pH	28.05 °C	28.98 µS/cm	6.44 mg/L	2.53 NTU	110.1 mV	30.71 ft	270.00 ml/min
8/14/2023 3:31 PM	04:08	5.45 pH	21.64 °C	32.41 µS/cm	0.43 mg/L	2.23 NTU	107.9 mV	30.71 ft	270.00 ml/min
8/14/2023 3:36 PM	09:08	5.16 pH	21.14 °C	32.30 µS/cm	1.54 mg/L	2.07 NTU	105.3 mV	30.71 ft	270.00 ml/min
8/14/2023 3:41 PM	14:08	5.13 pH	20.51 °C	32.08 µS/cm	1.70 mg/L	1.51 NTU	105.2 mV	30.71 ft	270.00 ml/min
8/14/2023 3:46 PM	19:08	5.11 pH	20.85 °C	32.18 µS/cm	1.74 mg/L	0.90 NTU	105.1 mV	30.71 ft	270.00 ml/min
8/14/2023 3:51 PM	24:08	5.14 pH	21.11 °C	32.23 µS/cm	1.73 mg/L	0.83 NTU	104.3 mV	30.71 ft	270.00 ml/min
8/14/2023 3:56 PM	29:08	5.14 pH	22.93 °C	32.39 µS/cm	1.75 mg/L	0.75 NTU	103.9 mV	30.71 ft	270.00 ml/min
8/14/2023 4:01 PM	34:08	5.09 pH	22.48 °C	31.82 µS/cm	1.75 mg/L	0.68 NTU	105.7 mV	30.71 ft	270.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/14/2023 1:48:20 PM

Project: Plant Wansley Ash Pond

Operator Name: Taylor Goble

Location Name: WGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 92.65 ft Total Depth: 102.65 ft Initial Depth to Water: 12.84 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 102 ft Pump Intake From TOC: 97 ft Estimated Total Volume Pumped: 8050 ml Flow Cell Volume: 90 ml Final Flow Rate: 230 ml/min Final Draw Down: 0.78 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1423. Sunny 93 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/14/2023 1:48 PM	00:00	6.89 pH	20.43 °C	118.59 µS/cm	0.37 mg/L	1.61 NTU	118.8 mV	13.62 ft	230.00 ml/min
8/14/2023 1:53 PM	05:00	6.26 pH	20.34 °C	115.87 µS/cm	0.21 mg/L	1.90 NTU	110.2 mV	13.62 ft	230.00 ml/min
8/14/2023 1:58 PM	10:00	6.16 pH	20.34 °C	116.12 µS/cm	0.15 mg/L	2.12 NTU	107.1 mV	13.62 ft	230.00 ml/min
8/14/2023 2:03 PM	15:00	6.13 pH	20.99 °C	117.56 µS/cm	0.19 mg/L	3.35 NTU	105.1 mV	13.62 ft	230.00 ml/min
8/14/2023 2:08 PM	20:00	6.16 pH	26.94 °C	124.96 µS/cm	1.51 mg/L	3.76 NTU	105.1 mV	13.62 ft	230.00 ml/min
8/14/2023 2:13 PM	25:00	6.14 pH	27.20 °C	120.58 µS/cm	2.30 mg/L	3.92 NTU	108.8 mV	13.62 ft	230.00 ml/min
8/14/2023 2:18 PM	30:00	6.05 pH	20.48 °C	116.96 µS/cm	0.17 mg/L	4.03 NTU	107.3 mV	13.62 ft	230.00 ml/min
8/14/2023 2:23 PM	35:00	6.06 pH	20.17 °C	118.19 µS/cm	0.18 mg/L	3.86 NTU	106.0 mV	13.62 ft	230.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/15/2023 9:53:24 AM

Project: Plant Wansley Ash Pond

Operator Name: Taylor 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: 3.38 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 19 ft Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 10500 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1028. Sunny 82 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/15/2023 9:53 AM	00:00	6.92 pH	20.33 °C	37.33 µS/cm	5.54 mg/L	1.14 NTU	149.3 mV	3.52 ft	300.00 ml/min
8/15/2023 9:58 AM	05:00	5.34 pH	18.72 °C	36.33 µS/cm	5.61 mg/L	0.64 NTU	135.8 mV	3.52 ft	300.00 ml/min
8/15/2023 10:03 AM	10:00	5.15 pH	18.61 °C	35.91 µS/cm	5.63 mg/L	0.59 NTU	130.9 mV	3.52 ft	300.00 ml/min
8/15/2023 10:08 AM	15:00	5.21 pH	20.43 °C	36.80 µS/cm	5.64 mg/L	0.52 NTU	126.5 mV	3.52 ft	300.00 ml/min
8/15/2023 10:13 AM	20:00	5.20 pH	22.90 °C	37.76 µS/cm	5.57 mg/L	0.37 NTU	125.5 mV	3.52 ft	300.00 ml/min
8/15/2023 10:18 AM	25:00	5.13 pH	19.22 °C	35.61 µS/cm	5.53 mg/L	0.44 NTU	126.4 mV	3.52 ft	300.00 ml/min
8/15/2023 10:23 AM	30:00	5.17 pH	19.01 °C	35.79 µS/cm	5.53 mg/L	0.46 NTU	124.3 mV	3.52 ft	300.00 ml/min
8/15/2023 10:28 AM	35:00	5.17 pH	19.02 °C	35.76 µS/cm	5.55 mg/L	0.53 NTU	123.3 mV	3.52 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/15/2023 11:06:39 AM

Project: Plant Wansley Ash Pond

Operator Name: Taylor 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: 5.91 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 73 ft Pump Intake From TOC: 68 ft Estimated Total Volume Pumped: 6750 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.55 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1151. Sunny 84 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/15/2023 11:06 AM	00:00	6.17 pH	29.24 °C	116.21 µS/cm	2.71 mg/L	3.29 NTU	120.6 mV	6.34 ft	150.00 ml/min
8/15/2023 11:11 AM	05:00	6.46 pH	21.85 °C	145.18 µS/cm	1.03 mg/L	3.12 NTU	111.0 mV	6.46 ft	150.00 ml/min
8/15/2023 11:16 AM	10:00	6.52 pH	21.43 °C	147.09 µS/cm	0.89 mg/L	2.45 NTU	102.3 mV	6.46 ft	150.00 ml/min
8/15/2023 11:21 AM	15:00	6.52 pH	21.42 °C	146.87 µS/cm	0.91 mg/L	2.32 NTU	95.2 mV	6.46 ft	150.00 ml/min
8/15/2023 11:26 AM	20:00	6.52 pH	21.32 °C	145.93 µS/cm	0.75 mg/L	2.20 NTU	89.1 mV	6.46 ft	150.00 ml/min
8/15/2023 11:31 AM	25:00	6.49 pH	21.29 °C	142.28 µS/cm	0.79 mg/L	2.15 NTU	83.1 mV	6.46 ft	150.00 ml/min
8/15/2023 11:36 AM	30:00	6.47 pH	21.55 °C	141.21 µS/cm	1.00 mg/L	1.98 NTU	78.5 mV	6.46 ft	150.00 ml/min
8/15/2023 11:41 AM	35:00	6.46 pH	21.62 °C	140.95 µS/cm	0.70 mg/L	1.91 NTU	74.4 mV	6.46 ft	150.00 ml/min
8/15/2023 11:46 AM	40:00	6.46 pH	21.71 °C	140.00 µS/cm	0.73 mg/L	1.81 NTU	70.7 mV	6.46 ft	150.00 ml/min
8/15/2023 11:51 AM	45:00	6.47 pH	21.68 °C	139.70 µS/cm	0.71 mg/L	1.66 NTU	66.4 mV	6.46 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/14/2023 1:28:12 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: 13.6 ft Total Depth: 23.6 ft Initial Depth to Water: 16.85 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 23 ft Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 38.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 46.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Well purged dry at 1741. Will return to sample on 8/15/23.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/14/2023 1:28 PM	00:00	8.52 pH	32.09 °C	71.09 µS/cm	6.57 mg/L	5.00 NTU	113.1 mV	16.85 ft	150.00 ml/min
8/14/2023 1:33 PM	05:00	7.91 pH	23.48 °C	219.06 µS/cm	1.74 mg/L	35.00 NTU	-3.9 mV	17.00 ft	150.00 ml/min
8/14/2023 1:35 PM	06:51	7.91 pH	22.18 °C	217.77 µS/cm	1.68 mg/L	31.00 NTU	-5.9 mV	17.10 ft	150.00 ml/min
8/14/2023 1:35 PM	07:13	7.92 pH	22.05 °C	222.68 µS/cm	1.69 mg/L	31.50 NTU	-5.8 mV	17.20 ft	150.00 ml/min
8/14/2023 1:40 PM	12:13	7.87 pH	21.73 °C	76.98 µS/cm	1.96 mg/L	61.40 NTU	-7.3 mV	17.40 ft	150.00 ml/min
8/14/2023 1:45 PM	17:13	7.51 pH	21.47 °C	34.82 µS/cm	4.65 mg/L	37.90 NTU	-3.1 mV	17.60 ft	150.00 ml/min
8/14/2023 1:50 PM	22:13	7.26 pH	21.51 °C	29.90 µS/cm	5.21 mg/L	32.80 NTU	-2.6 mV	17.60 ft	150.00 ml/min
8/14/2023 1:55 PM	27:13	7.12 pH	21.56 °C	27.97 µS/cm	5.05 mg/L	29.60 NTU	-1.3 mV	17.80 ft	150.00 ml/min
8/14/2023 2:00 PM	32:13	7.07 pH	21.27 °C	29.06 µS/cm	4.58 mg/L	30.10 NTU	-1.4 mV	17.90 ft	150.00 ml/min
8/14/2023 2:05 PM	37:13	7.00 pH	21.15 °C	26.84 µS/cm	4.23 mg/L	28.90 NTU	0.0 mV	17.90 ft	150.00 ml/min
8/14/2023 2:10 PM	42:13	6.96 pH	21.22 °C	25.65 µS/cm	3.90 mg/L	28.00 NTU	1.6 mV	17.90 ft	150.00 ml/min
8/14/2023 2:15 PM	47:13	6.94 pH	21.05 °C	26.16 µS/cm	3.85 mg/L	26.10 NTU	1.1 mV	18.00 ft	150.00 ml/min
8/14/2023 2:20 PM	52:13	6.93 pH	20.97 °C	26.57 µS/cm	3.78 mg/L	25.50 NTU	2.3 mV	18.10 ft	150.00 ml/min
8/14/2023 2:25 PM	57:13	6.90 pH	21.06 °C	26.77 µS/cm	3.75 mg/L	27.40 NTU	3.8 mV	18.10 ft	150.00 ml/min

8/14/2023 2:30 PM	01:02:13	6.92 pH	20.98 °C	28.87 µS/cm	3.87 mg/L	27.00 NTU	4.4 mV	18.10 ft	150.00 ml/min
8/14/2023 2:35 PM	01:07:13	6.91 pH	20.96 °C	27.73 µS/cm	4.03 mg/L	27.70 NTU	4.5 mV	18.20 ft	150.00 ml/min
8/14/2023 2:40 PM	01:12:13	6.99 pH	20.82 °C	29.58 µS/cm	4.00 mg/L	27.00 NTU	4.9 mV	18.30 ft	150.00 ml/min
8/14/2023 2:45 PM	01:17:13	6.94 pH	21.05 °C	36.64 µS/cm	4.02 mg/L	27.40 NTU	4.2 mV	18.40 ft	150.00 ml/min
8/14/2023 2:50 PM	01:22:13	6.95 pH	21.04 °C	30.57 µS/cm	3.92 mg/L	27.30 NTU	5.3 mV	18.40 ft	150.00 ml/min
8/14/2023 2:55 PM	01:27:13	6.95 pH	21.46 °C	33.14 µS/cm	3.81 mg/L	27.70 NTU	5.9 mV	18.60 ft	150.00 ml/min
8/14/2023 3:00 PM	01:32:13	6.95 pH	21.38 °C	34.62 µS/cm	4.04 mg/L	27.80 NTU	6.3 mV	18.50 ft	150.00 ml/min
8/14/2023 3:05 PM	01:37:13	6.96 pH	21.12 °C	35.34 µS/cm	4.09 mg/L	27.90 NTU	6.7 mV	18.70 ft	150.00 ml/min
8/14/2023 3:10 PM	01:42:13	6.98 pH	21.30 °C	38.91 µS/cm	4.32 mg/L	23.90 NTU	7.2 mV	18.80 ft	115.00 ml/min
8/14/2023 3:15 PM	01:47:13	7.13 pH	21.56 °C	54.08 µS/cm	4.05 mg/L	23.90 NTU	5.3 mV	18.80 ft	115.00 ml/min
8/14/2023 3:20 PM	01:52:13	7.09 pH	21.41 °C	47.06 µS/cm	4.06 mg/L	25.20 NTU	6.4 mV	18.80 ft	115.00 ml/min
8/14/2023 3:25 PM	01:57:13	7.10 pH	21.37 °C	49.85 µS/cm	4.02 mg/L	25.30 NTU	7.0 mV	18.90 ft	115.00 ml/min
8/14/2023 3:30 PM	02:02:13	7.16 pH	22.01 °C	53.33 µS/cm	4.02 mg/L	25.20 NTU	5.6 mV	19.00 ft	115.00 ml/min
8/14/2023 3:35 PM	02:07:13	7.15 pH	22.33 °C	55.77 µS/cm	4.09 mg/L	26.90 NTU	6.4 mV	19.00 ft	115.00 ml/min
8/14/2023 3:40 PM	02:12:13	7.20 pH	22.02 °C	58.85 µS/cm	4.20 mg/L	25.00 NTU	6.1 mV	19.00 ft	115.00 ml/min
8/14/2023 3:45 PM	02:17:13	7.21 pH	21.98 °C	61.03 µS/cm	4.11 mg/L	23.10 NTU	7.3 mV	19.10 ft	115.00 ml/min
8/14/2023 3:50 PM	02:22:13	7.20 pH	22.04 °C	60.13 µS/cm	4.20 mg/L	23.20 NTU	7.1 mV	19.10 ft	115.00 ml/min
8/14/2023 3:55 PM	02:27:13	7.22 pH	22.30 °C	58.10 µS/cm	4.26 mg/L	22.20 NTU	7.4 mV	19.10 ft	115.00 ml/min
8/14/2023 4:00 PM	02:32:13	7.19 pH	22.35 °C	57.74 µS/cm	4.31 mg/L	21.30 NTU	9.0 mV	19.10 ft	115.00 ml/min
8/14/2023 4:05 PM	02:37:13	7.19 pH	22.25 °C	57.88 µS/cm	4.45 mg/L	20.00 NTU	9.1 mV	19.10 ft	115.00 ml/min
8/14/2023 4:10 PM	02:42:13	7.19 pH	22.33 °C	58.44 µS/cm	4.45 mg/L	19.40 NTU	10.0 mV	19.20 ft	115.00 ml/min
8/14/2023 4:15 PM	02:47:13	7.08 pH	23.06 °C	39.50 µS/cm	5.01 mg/L	20.10 NTU	11.3 mV	19.20 ft	115.00 ml/min
8/14/2023 4:20 PM	02:52:13	7.10 pH	22.59 °C	45.64 µS/cm	4.96 mg/L	18.70 NTU	12.5 mV	19.20 ft	115.00 ml/min
8/14/2023 4:24 PM	02:55:55	7.09 pH	22.18 °C	43.72 µS/cm	4.87 mg/L	18.70 NTU	13.0 mV	19.20 ft	115.00 ml/min
8/14/2023 4:29 PM	03:00:55	7.07 pH	22.33 °C	43.68 µS/cm	4.91 mg/L	17.80 NTU	14.6 mV	19.20 ft	115.00 ml/min
8/14/2023 4:34 PM	03:05:55	7.07 pH	22.56 °C	40.50 µS/cm	4.84 mg/L	18.20 NTU	15.7 mV	19.20 ft	115.00 ml/min
8/14/2023 4:39 PM	03:10:55	7.05 pH	22.44 °C	41.74 µS/cm	4.82 mg/L	17.20 NTU	16.8 mV	19.30 ft	115.00 ml/min
8/14/2023 4:44 PM	03:15:55	7.06 pH	21.91 °C	43.23 µS/cm	4.86 mg/L	16.60 NTU	16.6 mV	19.30 ft	115.00 ml/min
8/14/2023 4:49 PM	03:20:55	7.08 pH	22.19 °C	43.92 µS/cm	4.79 mg/L	15.90 NTU	17.7 mV	19.40 ft	115.00 ml/min

8/14/2023 4:54 PM	03:25:55	7.05 pH	22.12 °C	46.17 µS/cm	4.82 mg/L	16.00 NTU	18.2 mV	19.40 ft	115.00 ml/min
8/14/2023 4:59 PM	03:30:55	7.08 pH	22.43 °C	44.84 µS/cm	4.76 mg/L	15.30 NTU	18.1 mV	19.50 ft	115.00 ml/min
8/14/2023 5:04 PM	03:35:55	7.09 pH	22.61 °C	45.78 µS/cm	4.79 mg/L	14.70 NTU	19.0 mV	19.50 ft	115.00 ml/min
8/14/2023 5:09 PM	03:40:55	7.10 pH	22.29 °C	46.01 µS/cm	4.78 mg/L	15.30 NTU	19.9 mV	19.50 ft	115.00 ml/min
8/14/2023 5:14 PM	03:45:55	7.09 pH	22.27 °C	47.48 µS/cm	4.87 mg/L	14.80 NTU	20.4 mV	19.50 ft	115.00 ml/min
8/14/2023 5:19 PM	03:50:55	7.12 pH	22.22 °C	47.43 µS/cm	4.91 mg/L	15.00 NTU	20.5 mV	19.50 ft	115.00 ml/min
8/14/2023 5:24 PM	03:55:55	7.12 pH	20.64 °C	52.16 µS/cm	5.88 mg/L	14.70 NTU	22.9 mV	20.00 ft	175.00 ml/min
8/14/2023 5:29 PM	04:00:55	7.26 pH	20.16 °C	101.13 µS/cm	4.66 mg/L	12.50 NTU	21.9 mV	20.40 ft	175.00 ml/min
8/14/2023 5:34 PM	04:05:55	7.41 pH	20.00 °C	147.43 µS/cm	3.90 mg/L	10.60 NTU	21.7 mV	20.60 ft	175.00 ml/min
8/14/2023 5:39 PM	04:10:55	7.51 pH	21.01 °C	145.30 µS/cm	3.53 mg/L	15.60 NTU	19.9 mV	20.70 ft	175.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/15/2023 2:51:51 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: 13.6 ft Total Depth: 23.6 ft Initial Depth to Water: 21.2 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 23 ft Pump Intake From TOC: 22 ft Estimated Total Volume Pumped: 32.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 50 ml/min Final Draw Down: 51.1 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sampled at 1516 on 8-15-23. Cloudy 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/15/2023 2:51 PM	00:00	6.36 pH	24.59 °C	97.45 µS/cm	4.66 mg/L	5.60 NTU	74.1 mV	21.20 ft	50.00 ml/min
8/15/2023 2:56 PM	05:00	6.31 pH	23.88 °C	99.84 µS/cm	4.20 mg/L	8.30 NTU	79.8 mV	21.30 ft	50.00 ml/min
8/15/2023 3:01 PM	10:00	6.54 pH	24.10 °C	129.09 µS/cm	3.60 mg/L	7.90 NTU	67.0 mV	21.40 ft	50.00 ml/min
8/15/2023 3:06 PM	15:00	6.62 pH	23.96 °C	137.36 µS/cm	3.09 mg/L	8.40 NTU	72.7 mV	21.40 ft	50.00 ml/min
8/15/2023 3:11 PM	20:00	6.63 pH	24.07 °C	135.88 µS/cm	3.00 mg/L	8.50 NTU	63.2 mV	21.40 ft	50.00 ml/min
8/15/2023 3:16 PM	25:00	6.60 pH	23.81 °C	128.73 µS/cm	2.83 mg/L	8.20 NTU	70.2 mV	21.50 ft	50.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/15/2023 10:45:27 AM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

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: 17.76 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 104 ft Pump Intake From TOC: 99 ft Estimated Total Volume Pumped: 3.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 10.1 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sampled at 1110 on 8-15-23. Partly cloudy, 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/15/2023 10:45 AM	00:00	5.82 pH	26.07 °C	0.00 µS/cm	7.99 mg/L	5.00 NTU	54.5 mV	17.76 ft	150.00 ml/min
8/15/2023 10:50 AM	05:00	7.35 pH	21.89 °C	152.39 µS/cm	1.31 mg/L	2.70 NTU	-40.5 mV	18.20 ft	150.00 ml/min
8/15/2023 10:55 AM	10:00	7.74 pH	21.27 °C	156.15 µS/cm	0.51 mg/L	2.50 NTU	-32.8 mV	18.30 ft	150.00 ml/min
8/15/2023 11:00 AM	15:00	7.85 pH	21.46 °C	155.71 µS/cm	1.12 mg/L	1.30 NTU	-62.1 mV	18.40 ft	150.00 ml/min
8/15/2023 11:05 AM	20:00	7.90 pH	21.23 °C	154.92 µS/cm	0.17 mg/L	0.90 NTU	-121.6 mV	18.50 ft	150.00 ml/min
8/15/2023 11:10 AM	25:00	7.93 pH	21.28 °C	155.50 µS/cm	0.15 mg/L	1.20 NTU	-138.4 mV	18.60 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/15/2023 1:00:31 PM

Project: Plant Wansley Ash Pond

Operator Name: Hunter 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: 27.76 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 39 ft Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.5 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sampled at 1350 on 8-15-23. Cloudy 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/15/2023 1:00 PM	00:00	7.73 pH	30.91 °C	15.05 µS/cm	7.16 mg/L	5.00 NTU	233.3 mV	27.76 ft	150.00 ml/min
8/15/2023 1:05 PM	05:00	7.25 pH	22.56 °C	252.27 µS/cm	0.50 mg/L	3.50 NTU	-70.8 mV	27.80 ft	150.00 ml/min
8/15/2023 1:10 PM	10:00	7.36 pH	20.59 °C	259.97 µS/cm	0.23 mg/L	1.40 NTU	-122.4 mV	27.80 ft	150.00 ml/min
8/15/2023 1:15 PM	15:00	7.32 pH	20.16 °C	211.90 µS/cm	0.49 mg/L	1.10 NTU	-90.6 mV	27.80 ft	200.00 ml/min
8/15/2023 1:20 PM	20:00	6.09 pH	19.62 °C	33.13 µS/cm	4.62 mg/L	0.90 NTU	56.3 mV	27.80 ft	200.00 ml/min
8/15/2023 1:25 PM	25:00	5.69 pH	19.88 °C	29.08 µS/cm	5.80 mg/L	0.90 NTU	76.1 mV	27.80 ft	200.00 ml/min
8/15/2023 1:30 PM	30:00	5.58 pH	19.69 °C	27.60 µS/cm	6.52 mg/L	0.90 NTU	97.5 mV	27.80 ft	200.00 ml/min
8/15/2023 1:35 PM	35:00	5.63 pH	19.62 °C	28.54 µS/cm	6.44 mg/L	0.80 NTU	80.6 mV	27.80 ft	200.00 ml/min
8/15/2023 1:40 PM	40:00	5.52 pH	19.51 °C	25.96 µS/cm	6.63 mg/L	0.60 NTU	100.1 mV	27.80 ft	200.00 ml/min
8/15/2023 1:45 PM	45:00	5.50 pH	19.44 °C	25.59 µS/cm	6.65 mg/L	0.60 NTU	100.3 mV	27.80 ft	200.00 ml/min
8/15/2023 1:50 PM	50:00	5.49 pH	19.62 °C	25.08 µS/cm	6.66 mg/L	0.50 NTU	82.9 mV	27.80 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/15/2023 1:28:17 PM

Project: Plant Wansley Ash Pond

Operator Name: Taylor 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: 20.61 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 39 ft Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 7057.5 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 2.69 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1415. Rainy 82 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/15/2023 1:28 PM	00:00	7.60 pH	28.92 °C	125.37 µS/cm	7.42 mg/L	3.08 NTU	159.8 mV	21.06 ft	150.00 ml/min
8/15/2023 1:33 PM	05:00	6.66 pH	20.07 °C	113.56 µS/cm	2.01 mg/L	2.12 NTU	137.0 mV	21.75 ft	150.00 ml/min
8/15/2023 1:38 PM	10:00	6.64 pH	19.31 °C	113.26 µS/cm	1.55 mg/L	1.36 NTU	132.5 mV	22.26 ft	150.00 ml/min
8/15/2023 1:43 PM	15:00	6.46 pH	19.09 °C	97.36 µS/cm	2.21 mg/L	1.22 NTU	128.4 mV	22.63 ft	150.00 ml/min
8/15/2023 1:48 PM	20:00	6.27 pH	18.88 °C	92.22 µS/cm	2.26 mg/L	0.90 NTU	127.1 mV	22.91 ft	150.00 ml/min
8/15/2023 1:50 PM	22:03	6.21 pH	18.99 °C	91.37 µS/cm	2.23 mg/L	0.59 NTU	127.1 mV	23.03 ft	150.00 ml/min
8/15/2023 1:55 PM	27:03	6.14 pH	19.01 °C	90.61 µS/cm	1.97 mg/L	0.54 NTU	124.8 mV	23.15 ft	150.00 ml/min
8/15/2023 2:00 PM	32:03	6.11 pH	18.88 °C	90.38 µS/cm	1.65 mg/L	0.51 NTU	123.3 mV	23.24 ft	150.00 ml/min
8/15/2023 2:05 PM	37:03	6.03 pH	18.79 °C	90.68 µS/cm	1.39 mg/L	0.63 NTU	126.9 mV	23.30 ft	150.00 ml/min
8/15/2023 2:10 PM	42:03	6.04 pH	18.70 °C	89.83 µS/cm	1.24 mg/L	0.66 NTU	125.7 mV	23.30 ft	150.00 ml/min
8/15/2023 2:15 PM	47:03	6.01 pH	18.46 °C	87.32 µS/cm	1.35 mg/L	0.75 NTU	126.9 mV	23.30 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/15/2023 4:42:32 PM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

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: 6.52 ft	Pump Type: Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 59 ft Pump Intake From TOC: 54.5 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 25 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sampled at 1707. Cloudy 80s. FB-07 here at 1730.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/15/2023 4:42 PM	00:00	6.67 pH	28.92 °C	739.05 µS/cm	6.68 mg/L	5.00 NTU	86.1 mV	6.52 ft	160.00 ml/min
8/15/2023 4:47 PM	05:00	5.44 pH	21.40 °C	774.64 µS/cm	1.14 mg/L	1.80 NTU	93.3 mV	7.60 ft	160.00 ml/min
8/15/2023 4:52 PM	10:00	5.31 pH	20.41 °C	774.41 µS/cm	1.01 mg/L	3.70 NTU	113.8 mV	8.10 ft	160.00 ml/min
8/15/2023 4:57 PM	15:00	5.40 pH	20.60 °C	772.43 µS/cm	0.86 mg/L	2.80 NTU	116.6 mV	8.40 ft	140.00 ml/min
8/15/2023 5:02 PM	20:00	5.44 pH	20.44 °C	768.83 µS/cm	0.82 mg/L	3.40 NTU	98.3 mV	8.50 ft	120.00 ml/min
8/15/2023 5:07 PM	25:00	5.43 pH	20.30 °C	771.01 µS/cm	0.83 mg/L	3.20 NTU	110.8 mV	8.60 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2023 9:20:18 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 ft Total Depth: 61.08 ft Initial Depth to Water: 20.79 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 61 ft Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 2.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 10.9 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sampled at 0945. Sunny, 70s. EB-01 here at 1005.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/16/2023 9:20 AM	00:00	5.55 pH	22.88 °C	13.11 µS/cm	8.48 mg/L	5.00 NTU	261.8 mV	20.79 ft	100.00 ml/min
8/16/2023 9:25 AM	05:00	5.79 pH	22.00 °C	170.77 µS/cm	2.79 mg/L	2.70 NTU	130.1 mV	20.90 ft	100.00 ml/min
8/16/2023 9:30 AM	10:00	5.78 pH	21.03 °C	161.62 µS/cm	1.48 mg/L	1.50 NTU	111.9 mV	21.20 ft	100.00 ml/min
8/16/2023 9:35 AM	15:00	5.78 pH	20.76 °C	160.19 µS/cm	1.34 mg/L	0.80 NTU	105.0 mV	21.50 ft	100.00 ml/min
8/16/2023 9:40 AM	20:00	5.78 pH	20.60 °C	160.24 µS/cm	1.29 mg/L	3.90 NTU	97.1 mV	21.60 ft	100.00 ml/min
8/16/2023 9:45 AM	25:00	5.78 pH	20.56 °C	159.80 µS/cm	1.27 mg/L	1.11 NTU	98.6 mV	21.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2023 11:35:06 AM

Project: Plant Wansley Ash Pond

Operator Name: D. Johnson

Location Name: WGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 138.98 ft Total Depth: 148.98 ft Initial Depth to Water: 21.32 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 148 ft Pump Intake From TOC: 143.98 ft Estimated Total Volume Pumped: 1.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 50 ml/min Final Draw Down: 30.96 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sample time 1205.

Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/17/2023 11:35 AM	00:00	7.27 pH	29.42 °C	60.00 µS/cm	6.55 mg/L	3.02 NTU	55.6 mV	21.32 ft	50.00 ml/min
8/17/2023 11:40 AM	05:00	6.99 pH	24.92 °C	44.48 µS/cm	6.66 mg/L	2.30 NTU	57.7 mV	21.89 ft	50.00 ml/min
8/17/2023 11:45 AM	10:00	6.74 pH	19.63 °C	43.84 µS/cm	2.60 mg/L	1.47 NTU	64.5 mV	22.43 ft	50.00 ml/min
8/17/2023 11:50 AM	15:00	6.68 pH	18.75 °C	45.92 µS/cm	5.02 mg/L	3.50 NTU	67.5 mV	23.62 ft	50.00 ml/min
8/17/2023 11:55 AM	20:00	6.55 pH	19.17 °C	46.55 µS/cm	5.56 mg/L	3.49 NTU	66.4 mV	23.81 ft	50.00 ml/min
8/17/2023 12:00 PM	25:00	6.51 pH	18.82 °C	46.17 µS/cm	5.54 mg/L	3.01 NTU	68.7 mV	23.87 ft	50.00 ml/min
8/17/2023 12:05 PM	30:00	6.49 pH	18.74 °C	45.86 µS/cm	5.71 mg/L	1.88 NTU	70.7 mV	23.90 ft	50.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2023 9:30:55 AM

Project: Plant Wansley Ash Pond

Operator Name: Taylor 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: 27.79 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 49 ft Pump Intake From TOC: 44 ft Estimated Total Volume Pumped: 5950 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3.5 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1000. Clear 74 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/16/2023 9:30 AM	00:00	8.07 pH	22.02 °C	47.44 µS/cm	6.88 mg/L	6.16 NTU	158.3 mV	28.90 ft	200.00 ml/min
8/16/2023 9:35 AM	05:00	5.63 pH	18.76 °C	35.95 µS/cm	6.81 mg/L	5.10 NTU	153.5 mV	28.90 ft	200.00 ml/min
8/16/2023 9:40 AM	10:00	5.16 pH	18.77 °C	35.54 µS/cm	6.73 mg/L	3.89 NTU	155.7 mV	29.56 ft	200.00 ml/min
8/16/2023 9:45 AM	15:00	5.20 pH	18.79 °C	35.92 µS/cm	6.74 mg/L	3.12 NTU	157.5 mV	30.21 ft	200.00 ml/min
8/16/2023 9:50 AM	19:45	5.18 pH	18.83 °C	36.29 µS/cm	6.80 mg/L	2.46 NTU	156.8 mV	31.29 ft	200.00 ml/min
8/16/2023 9:55 AM	24:45	5.17 pH	18.88 °C	36.70 µS/cm	6.86 mg/L	2.27 NTU	158.4 mV	31.29 ft	200.00 ml/min
8/16/2023 10:00 AM	29:45	5.19 pH	18.89 °C	37.12 µS/cm	6.92 mg/L	2.04 NTU	159.9 mV	31.29 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2023 10:48:15 AM

Project: Plant Wansley Ash Pond

Operator Name: Taylor 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: 27.31 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 76 ft Pump Intake From TOC: 71 ft Estimated Total Volume Pumped: 16500 ml Flow Cell Volume: 90 ml Final Flow Rate: 275 ml/min Final Draw Down: 0.34 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1148. Clear 77 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/16/2023 10:48 AM	00:00	5.93 pH	24.42 °C	109.77 µS/cm	5.44 mg/L	935.00 NTU	148.4 mV	27.61 ft	275.00 ml/min
8/16/2023 10:53 AM	05:00	5.71 pH	20.70 °C	112.88 µS/cm	1.38 mg/L	337.00 NTU	116.4 mV	27.65 ft	275.00 ml/min
8/16/2023 10:58 AM	10:00	5.89 pH	19.85 °C	111.97 µS/cm	0.36 mg/L	189.00 NTU	111.8 mV	27.65 ft	275.00 ml/min
8/16/2023 11:03 AM	15:00	5.93 pH	19.32 °C	114.22 µS/cm	0.19 mg/L	154.00 NTU	105.0 mV	27.65 ft	275.00 ml/min
8/16/2023 11:08 AM	20:00	5.95 pH	19.25 °C	117.13 µS/cm	0.16 mg/L	66.00 NTU	99.9 mV	27.65 ft	275.00 ml/min
8/16/2023 11:13 AM	25:00	5.98 pH	19.12 °C	119.48 µS/cm	0.17 mg/L	35.50 NTU	95.8 mV	27.65 ft	275.00 ml/min
8/16/2023 11:18 AM	30:00	6.00 pH	19.01 °C	121.42 µS/cm	0.17 mg/L	13.80 NTU	92.4 mV	27.65 ft	275.00 ml/min
8/16/2023 11:23 AM	35:00	6.02 pH	19.04 °C	122.48 µS/cm	0.18 mg/L	9.66 NTU	89.7 mV	27.65 ft	275.00 ml/min
8/16/2023 11:28 AM	40:00	6.04 pH	19.05 °C	123.78 µS/cm	0.18 mg/L	8.14 NTU	87.0 mV	27.65 ft	275.00 ml/min
8/16/2023 11:33 AM	45:00	6.06 pH	19.11 °C	123.93 µS/cm	0.18 mg/L	7.27 NTU	84.2 mV	27.65 ft	275.00 ml/min
8/16/2023 11:38 AM	50:00	6.08 pH	19.08 °C	124.43 µS/cm	0.19 mg/L	5.82 NTU	82.1 mV	27.65 ft	275.00 ml/min
8/16/2023 11:43 AM	55:00	6.09 pH	19.09 °C	124.54 µS/cm	0.19 mg/L	5.26 NTU	80.1 mV	27.65 ft	275.00 ml/min
8/16/2023 11:48 AM	01:00:00	6.10 pH	19.10 °C	124.71 µS/cm	0.19 mg/L	4.81 NTU	78.3 mV	27.65 ft	275.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/16/2023 3:00:07 PM

Project: Plant Wansley Ash Pond

Operator Name: D. Johnson

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: 22.71 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 95 ft Pump Intake From TOC: 90.55 ft Estimated Total Volume Pumped: 3.125 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 14.4 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sample time 1525.

Sunny, 83 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/16/2023 3:00 PM	00:00	6.27 pH	35.05 °C	46.97 µS/cm	6.11 mg/L	3.19 NTU	108.5 mV	22.71 ft	125.00 ml/min
8/16/2023 3:05 PM	05:00	6.33 pH	26.15 °C	44.31 µS/cm	5.13 mg/L	3.20 NTU	101.1 mV	23.35 ft	125.00 ml/min
8/16/2023 3:10 PM	10:00	6.10 pH	23.78 °C	47.51 µS/cm	2.62 mg/L	10.20 NTU	105.9 mV	23.61 ft	125.00 ml/min
8/16/2023 3:15 PM	15:00	6.16 pH	23.15 °C	45.79 µS/cm	2.97 mg/L	3.98 NTU	103.4 mV	23.81 ft	125.00 ml/min
8/16/2023 3:20 PM	20:00	6.22 pH	23.12 °C	45.45 µS/cm	3.09 mg/L	2.42 NTU	95.6 mV	23.91 ft	125.00 ml/min
8/16/2023 3:25 PM	25:00	6.22 pH	22.85 °C	45.43 µS/cm	2.81 mg/L	2.43 NTU	94.7 mV	23.91 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2023 1:36:11 PM

Project: Plant Wansley Ash Pond

Operator Name: D. Johnson

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: 23.91 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 40 ft Pump Intake From TOC: 38.08 ft Estimated Total Volume Pumped: 3.125 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 9 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sample time 1401

Sunny, 82 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/16/2023 1:36 PM	00:00	6.91 pH	35.24 °C	103.27 µS/cm	6.29 mg/L	2.01 NTU	176.1 mV	23.91 ft	125.00 ml/min
8/16/2023 1:41 PM	05:00	5.28 pH	23.82 °C	23.53 µS/cm	2.32 mg/L	1.32 NTU	112.2 mV	24.55 ft	125.00 ml/min
8/16/2023 1:46 PM	10:00	5.13 pH	22.53 °C	22.07 µS/cm	2.21 mg/L	1.74 NTU	106.8 mV	24.61 ft	125.00 ml/min
8/16/2023 1:51 PM	15:00	5.14 pH	22.30 °C	21.60 µS/cm	2.22 mg/L	1.71 NTU	104.6 mV	24.65 ft	125.00 ml/min
8/16/2023 1:56 PM	20:00	5.15 pH	22.19 °C	21.33 µS/cm	2.18 mg/L	1.25 NTU	104.0 mV	24.66 ft	125.00 ml/min
8/16/2023 2:01 PM	25:00	5.17 pH	22.09 °C	21.70 µS/cm	2.18 mg/L	1.22 NTU	103.8 mV	24.66 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2023 1:29:37 PM

Project: Plant Wansley Ash Pond

Operator Name: Taylor Goble

Location Name: WGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.36 ft Total Depth: 53.36 ft Initial Depth to Water: 19.02 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 53 ft Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 3.44 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1359. Sunny 84 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/16/2023 1:29 PM	00:00	7.25 pH	30.71 °C	330.93 µS/cm	6.87 mg/L	2.44 NTU	164.9 mV	19.36 ft	100.00 ml/min
8/16/2023 1:34 PM	05:00	7.34 pH	21.01 °C	257.09 µS/cm	4.22 mg/L	2.30 NTU	126.7 mV	20.11 ft	100.00 ml/min
8/16/2023 1:39 PM	10:00	7.39 pH	19.81 °C	259.06 µS/cm	2.76 mg/L	1.37 NTU	117.0 mV	20.85 ft	100.00 ml/min
8/16/2023 1:44 PM	15:00	7.42 pH	19.47 °C	245.82 µS/cm	4.34 mg/L	1.01 NTU	112.6 mV	21.62 ft	100.00 ml/min
8/16/2023 1:49 PM	20:00	7.41 pH	19.51 °C	243.50 µS/cm	4.90 mg/L	0.89 NTU	110.3 mV	22.46 ft	100.00 ml/min
8/16/2023 1:54 PM	25:00	7.41 pH	19.42 °C	242.11 µS/cm	4.68 mg/L	0.84 NTU	108.8 mV	22.46 ft	100.00 ml/min
8/16/2023 1:59 PM	30:00	7.41 pH	19.39 °C	243.15 µS/cm	4.68 mg/L	0.77 NTU	107.6 mV	22.46 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/15/2023 3:26:14 PM

Project: Plant Wansley Ash Pond

Operator Name: Taylor Goble

Location Name: WGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.78 ft Total Depth: 34.78 ft Initial Depth to Water: 18.49 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 34 ft Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1556. Cloudy 87 degrees. FD-02 taken here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/15/2023 3:26 PM	00:00	5.52 pH	20.04 °C	266.41 µS/cm	5.47 mg/L	2.64 NTU	132.2 mV	18.59 ft	300.00 ml/min
8/15/2023 3:31 PM	05:00	5.15 pH	18.22 °C	260.51 µS/cm	4.02 mg/L	2.27 NTU	133.9 mV	18.59 ft	300.00 ml/min
8/15/2023 3:36 PM	10:00	5.11 pH	18.19 °C	258.48 µS/cm	3.70 mg/L	1.55 NTU	136.8 mV	18.59 ft	300.00 ml/min
8/15/2023 3:41 PM	15:00	5.10 pH	18.16 °C	258.15 µS/cm	3.62 mg/L	1.38 NTU	140.0 mV	18.59 ft	300.00 ml/min
8/15/2023 3:46 PM	20:00	5.09 pH	18.28 °C	258.78 µS/cm	3.52 mg/L	1.33 NTU	143.1 mV	18.59 ft	300.00 ml/min
8/15/2023 3:51 PM	25:00	5.07 pH	18.21 °C	266.83 µS/cm	3.43 mg/L	1.21 NTU	146.3 mV	18.59 ft	300.00 ml/min
8/15/2023 3:56 PM	30:00	5.07 pH	18.30 °C	264.52 µS/cm	3.42 mg/L	1.18 NTU	149.2 mV	18.59 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2023 2:35:04 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.9 ft Total Depth: 95.94 ft Initial Depth to Water: 28.95 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 4 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 9 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1515. Sunny 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/16/2023 2:35 PM	00:00	7.05 pH	33.28 °C	73.12 µS/cm	6.40 mg/L	1.32 NTU	141.8 mV	28.95 ft	100.00 ml/min
8/16/2023 2:40 PM	05:00	6.33 pH	24.41 °C	58.61 µS/cm	0.90 mg/L	0.99 NTU	74.0 mV	29.50 ft	100.00 ml/min
8/16/2023 2:45 PM	10:00	6.15 pH	23.39 °C	59.65 µS/cm	0.96 mg/L	1.96 NTU	98.7 mV	29.70 ft	100.00 ml/min
8/16/2023 2:50 PM	15:00	6.12 pH	23.16 °C	59.89 µS/cm	1.44 mg/L	1.33 NTU	108.2 mV	29.70 ft	100.00 ml/min
8/16/2023 2:55 PM	20:00	6.12 pH	23.31 °C	59.84 µS/cm	1.18 mg/L	1.06 NTU	87.2 mV	29.70 ft	100.00 ml/min
8/16/2023 3:00 PM	25:00	6.11 pH	22.17 °C	60.39 µS/cm	0.95 mg/L	1.32 NTU	84.1 mV	29.70 ft	100.00 ml/min
8/16/2023 3:05 PM	30:00	6.12 pH	21.47 °C	60.49 µS/cm	0.85 mg/L	0.67 NTU	81.0 mV	29.70 ft	100.00 ml/min
8/16/2023 3:10 PM	35:00	6.13 pH	21.24 °C	60.42 µS/cm	0.81 mg/L	0.69 NTU	79.4 mV	29.70 ft	100.00 ml/min
8/16/2023 3:15 PM	40:00	6.13 pH	22.49 °C	60.42 µS/cm	0.80 mg/L	0.60 NTU	78.8 mV	29.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2023 2:49:11 PM

Project: Plant Wansley Ash Pond

Operator Name: Taylor Goble

Location Name: WGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 84.84 ft Total Depth: 94.84 ft Initial Depth to Water: 20.39 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 102 ft Pump Intake From TOC: 89 ft Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.56 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1535. Sunny 87 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/16/2023 2:49 PM	00:00	7.39 pH	33.63 °C	200.77 µS/cm	6.82 mg/L	3.47 NTU	110.3 mV	20.63 ft	200.00 ml/min
8/16/2023 2:54 PM	05:00	6.98 pH	20.57 °C	180.58 µS/cm	1.33 mg/L	4.97 NTU	105.6 mV	21.45 ft	200.00 ml/min
8/16/2023 2:59 PM	10:00	6.70 pH	19.95 °C	171.85 µS/cm	1.13 mg/L	3.09 NTU	106.5 mV	21.76 ft	200.00 ml/min
8/16/2023 3:04 PM	15:00	6.57 pH	19.97 °C	174.52 µS/cm	0.87 mg/L	1.65 NTU	106.3 mV	21.95 ft	200.00 ml/min
8/16/2023 3:09 PM	20:00	6.54 pH	19.46 °C	167.72 µS/cm	0.95 mg/L	1.86 NTU	106.5 mV	21.95 ft	200.00 ml/min
8/16/2023 3:14 PM	25:00	6.50 pH	19.18 °C	168.57 µS/cm	1.90 mg/L	1.27 NTU	107.4 mV	21.95 ft	200.00 ml/min
8/16/2023 3:19 PM	30:00	6.46 pH	19.42 °C	169.34 µS/cm	1.53 mg/L	1.11 NTU	108.3 mV	21.95 ft	200.00 ml/min
8/16/2023 3:24 PM	35:00	6.46 pH	19.52 °C	169.47 µS/cm	1.78 mg/L	1.14 NTU	108.1 mV	21.95 ft	200.00 ml/min
8/16/2023 3:29 PM	40:00	6.45 pH	19.16 °C	173.30 µS/cm	1.66 mg/L	1.04 NTU	108.6 mV	21.95 ft	200.00 ml/min
8/16/2023 3:34 PM	45:00	6.44 pH	20.53 °C	177.38 µS/cm	1.91 mg/L	1.00 NTU	108.2 mV	21.95 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/11/2023 10:30:16 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.8 ft Total Depth: 43.87 ft Initial Depth to Water: 32.43 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 15 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1100. Raining 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/11/2023 10:30 AM	00:00	5.56 pH	21.43 °C	938.67 µS/cm	4.98 mg/L	4.57 NTU	118.5 mV	32.43 ft	150.00 ml/min
8/11/2023 10:35 AM	05:00	5.40 pH	20.75 °C	938.31 µS/cm	3.08 mg/L	4.45 NTU	127.6 mV	33.70 ft	150.00 ml/min
8/11/2023 10:40 AM	10:00	5.35 pH	20.73 °C	947.08 µS/cm	2.41 mg/L	2.59 NTU	169.9 mV	33.70 ft	150.00 ml/min
8/11/2023 10:45 AM	15:00	5.32 pH	21.14 °C	946.34 µS/cm	2.16 mg/L	1.92 NTU	148.8 mV	33.70 ft	150.00 ml/min
8/11/2023 10:50 AM	20:00	5.31 pH	21.01 °C	949.91 µS/cm	2.08 mg/L	1.87 NTU	155.2 mV	33.70 ft	150.00 ml/min
8/11/2023 10:55 AM	25:00	5.31 pH	21.27 °C	948.20 µS/cm	2.06 mg/L	1.00 NTU	160.0 mV	33.70 ft	150.00 ml/min
8/11/2023 11:00 AM	30:00	5.31 pH	21.16 °C	952.87 µS/cm	2.07 mg/L	0.81 NTU	165.0 mV	33.70 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2023 9:40:10 AM

Project: Plant Wansley Ash Pond

Operator Name: D. Johnson

Location Name: WGWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61.75 ft Total Depth: 71.75 ft Initial Depth to Water: 50.31 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 71 ft Pump Intake From TOC: 66.75 ft Estimated Total Volume Pumped: 3.9 liter Flow Cell Volume: 90 ml Final Flow Rate: 60 ml/min Final Draw Down: 46.68 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sample time 1045.

76 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/17/2023 9:40 AM	00:00	6.76 pH	24.92 °C	672.05 µS/cm	7.46 mg/L	1.02 NTU	167.4 mV	50.31 ft	60.00 ml/min
8/17/2023 9:45 AM	05:00	6.97 pH	21.31 °C	548.54 µS/cm	6.74 mg/L	0.79 NTU	111.8 mV	50.79 ft	60.00 ml/min
8/17/2023 9:50 AM	10:00	6.91 pH	20.53 °C	739.24 µS/cm	3.88 mg/L	1.16 NTU	63.1 mV	51.21 ft	60.00 ml/min
8/17/2023 9:55 AM	15:00	6.91 pH	20.19 °C	781.18 µS/cm	3.03 mg/L	0.68 NTU	60.7 mV	51.61 ft	60.00 ml/min
8/17/2023 10:00 AM	20:00	6.90 pH	20.31 °C	814.22 µS/cm	2.35 mg/L	0.67 NTU	61.3 mV	51.91 ft	60.00 ml/min
8/17/2023 10:05 AM	25:00	6.90 pH	20.22 °C	821.53 µS/cm	2.03 mg/L	0.80 NTU	61.2 mV	52.23 ft	60.00 ml/min
8/17/2023 10:10 AM	30:00	6.89 pH	20.13 °C	827.99 µS/cm	1.80 mg/L	1.06 NTU	61.0 mV	52.62 ft	60.00 ml/min
8/17/2023 10:15 AM	35:00	6.89 pH	20.18 °C	823.42 µS/cm	1.63 mg/L	1.04 NTU	60.8 mV	53.05 ft	60.00 ml/min
8/17/2023 10:20 AM	40:00	6.89 pH	20.49 °C	793.71 µS/cm	1.56 mg/L	1.02 NTU	59.2 mV	53.54 ft	60.00 ml/min
8/17/2023 10:25 AM	45:00	6.88 pH	20.64 °C	740.27 µS/cm	1.86 mg/L	1.10 NTU	57.5 mV	53.72 ft	60.00 ml/min
8/17/2023 10:30 AM	50:00	6.87 pH	20.66 °C	702.08 µS/cm	2.19 mg/L	1.19 NTU	57.0 mV	54.01 ft	60.00 ml/min
8/17/2023 10:35 AM	55:00	6.87 pH	20.54 °C	681.61 µS/cm	2.47 mg/L	1.10 NTU	60.1 mV	54.20 ft	60.00 ml/min
8/17/2023 10:40 AM	01:00:00	6.86 pH	20.87 °C	663.79 µS/cm	2.62 mg/L	1.05 NTU	57.2 mV	54.20 ft	60.00 ml/min

8/17/2023 10:45 AM	01:05:00	6.86 pH	21.29 °C	656.08 µS/cm	2.68 mg/L	1.01 NTU	56.5 mV	54.20 ft	60.00 ml/min
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Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2023 11:40:07 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-22 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: 19.22 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 45 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1210. Sunny 80s. EB-03 here at 1135.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/17/2023 11:40 AM	00:00	5.68 pH	24.94 °C	174.58 µS/cm	5.55 mg/L	1.14 NTU	140.9 mV	19.22 ft	150.00 ml/min
8/17/2023 11:45 AM	05:00	5.45 pH	19.62 °C	147.36 µS/cm	1.92 mg/L	0.93 NTU	156.5 mV	21.20 ft	150.00 ml/min
8/17/2023 11:50 AM	10:00	5.43 pH	19.33 °C	145.06 µS/cm	1.54 mg/L	0.86 NTU	194.1 mV	22.10 ft	150.00 ml/min
8/17/2023 11:55 AM	15:00	5.43 pH	19.58 °C	144.44 µS/cm	1.46 mg/L	0.83 NTU	201.9 mV	22.80 ft	150.00 ml/min
8/17/2023 12:00 PM	20:00	5.42 pH	19.95 °C	145.01 µS/cm	1.46 mg/L	1.45 NTU	205.4 mV	23.00 ft	150.00 ml/min
8/17/2023 12:05 PM	25:00	5.42 pH	20.46 °C	143.66 µS/cm	1.46 mg/L	0.75 NTU	166.2 mV	23.00 ft	150.00 ml/min
8/17/2023 12:10 PM	30:00	5.41 pH	20.80 °C	143.66 µS/cm	1.45 mg/L	0.85 NTU	165.4 mV	23.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2023 10:40:06 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.7 ft Total Depth: 53.7 ft Initial Depth to Water: 32.54 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 7 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1110. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/17/2023 10:40 AM	00:00	6.30 pH	21.76 °C	48.44 µS/cm	4.60 mg/L	1.40 NTU	120.8 mV	32.54 ft	150.00 ml/min
8/17/2023 10:45 AM	05:00	5.68 pH	19.48 °C	51.21 µS/cm	4.26 mg/L	0.80 NTU	123.7 mV	33.10 ft	150.00 ml/min
8/17/2023 10:50 AM	10:00	5.68 pH	19.01 °C	51.60 µS/cm	4.04 mg/L	0.74 NTU	127.9 mV	33.10 ft	150.00 ml/min
8/17/2023 10:55 AM	15:00	5.67 pH	18.95 °C	51.57 µS/cm	4.01 mg/L	0.51 NTU	150.8 mV	33.10 ft	150.00 ml/min
8/17/2023 11:00 AM	20:00	5.66 pH	19.16 °C	51.37 µS/cm	3.92 mg/L	0.36 NTU	135.9 mV	33.10 ft	150.00 ml/min
8/17/2023 11:05 AM	25:00	5.66 pH	19.33 °C	51.49 µS/cm	3.92 mg/L	0.44 NTU	138.1 mV	33.10 ft	150.00 ml/min
8/17/2023 11:10 AM	30:00	5.66 pH	19.18 °C	51.44 µS/cm	3.92 mg/L	0.43 NTU	140.3 mV	33.10 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2023 9:34:32 AM

Project: Plant Wansley Ash Pond

Operator Name: Taylor Goble

Location Name: WGWC-24 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.75 ft Total Depth: 40.75 ft Initial Depth to Water: 16.01 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 40 ft Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 6750 ml Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 0.21 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1004. Clear 73 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/17/2023 9:34 AM	00:00	5.14 pH	20.77 °C	234.55 µS/cm	2.94 mg/L	6.15 NTU	161.4 mV	16.18 ft	225.00 ml/min
8/17/2023 9:39 AM	05:00	4.49 pH	19.94 °C	215.40 µS/cm	1.88 mg/L	5.48 NTU	166.6 mV	16.22 ft	225.00 ml/min
8/17/2023 9:44 AM	10:00	4.44 pH	20.14 °C	203.31 µS/cm	1.57 mg/L	5.50 NTU	179.6 mV	16.22 ft	225.00 ml/min
8/17/2023 9:49 AM	15:00	4.42 pH	20.17 °C	199.30 µS/cm	1.57 mg/L	4.76 NTU	187.5 mV	16.22 ft	225.00 ml/min
8/17/2023 9:54 AM	20:00	4.39 pH	20.22 °C	199.11 µS/cm	1.40 mg/L	4.49 NTU	195.1 mV	16.22 ft	225.00 ml/min
8/17/2023 9:59 AM	25:00	4.37 pH	20.22 °C	200.70 µS/cm	1.50 mg/L	4.28 NTU	202.2 mV	16.22 ft	225.00 ml/min
8/17/2023 10:04 AM	30:00	4.35 pH	20.42 °C	203.10 µS/cm	1.42 mg/L	3.99 NTU	207.8 mV	16.22 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/15/2023 4:35:36 PM

Project: Plant Wansley Ash Pond

Operator Name: Taylor Goble

Location Name: WGWC-25 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.83 ft Total Depth: 39.83 ft Initial Depth to Water: 17.69 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 39 ft Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 15000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.3 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sample at 1750. Cloudy 83 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/15/2023 4:35 PM	00:00	5.53 pH	26.15 °C	324.29 µS/cm	4.20 mg/L	73.60 NTU	170.2 mV	17.89 ft	200.00 ml/min
8/15/2023 4:40 PM	05:00	5.87 pH	20.21 °C	338.73 µS/cm	1.69 mg/L	90.70 NTU	150.0 mV	17.95 ft	200.00 ml/min
8/15/2023 4:45 PM	10:00	5.91 pH	19.79 °C	340.39 µS/cm	0.91 mg/L	105.00 NTU	137.1 mV	17.99 ft	200.00 ml/min
8/15/2023 4:50 PM	15:00	5.95 pH	19.72 °C	339.94 µS/cm	0.51 mg/L	118.00 NTU	128.2 mV	17.99 ft	200.00 ml/min
8/15/2023 4:55 PM	20:00	5.96 pH	19.52 °C	341.05 µS/cm	0.48 mg/L	88.60 NTU	122.3 mV	17.99 ft	200.00 ml/min
8/15/2023 5:00 PM	25:00	5.96 pH	19.46 °C	341.53 µS/cm	0.41 mg/L	60.60 NTU	118.3 mV	17.99 ft	200.00 ml/min
8/15/2023 5:05 PM	30:00	5.97 pH	19.32 °C	340.78 µS/cm	0.41 mg/L	42.80 NTU	115.4 mV	17.99 ft	200.00 ml/min
8/15/2023 5:10 PM	35:00	5.98 pH	19.19 °C	341.39 µS/cm	0.29 mg/L	30.80 NTU	113.3 mV	17.99 ft	200.00 ml/min
8/15/2023 5:15 PM	40:00	5.99 pH	19.11 °C	338.50 µS/cm	0.37 mg/L	19.20 NTU	111.4 mV	17.99 ft	200.00 ml/min
8/15/2023 5:20 PM	45:00	5.98 pH	19.10 °C	337.43 µS/cm	0.25 mg/L	16.60 NTU	109.9 mV	17.99 ft	200.00 ml/min
8/15/2023 5:25 PM	50:00	5.98 pH	19.03 °C	336.67 µS/cm	0.23 mg/L	14.40 NTU	108.7 mV	17.99 ft	200.00 ml/min
8/15/2023 5:30 PM	55:00	5.98 pH	18.97 °C	335.03 µS/cm	0.22 mg/L	12.30 NTU	107.8 mV	17.99 ft	200.00 ml/min
8/15/2023 5:35 PM	01:00:00	5.98 pH	18.97 °C	334.19 µS/cm	0.22 mg/L	9.96 NTU	106.9 mV	17.99 ft	200.00 ml/min
8/15/2023 5:40 PM	01:05:00	5.98 pH	18.98 °C	333.23 µS/cm	0.22 mg/L	7.19 NTU	106.1 mV	17.99 ft	200.00 ml/min

8/15/2023 5:45 PM	01:10:00	5.97 pH	19.11 °C	334.44 µS/cm	0.22 mg/L	5.56 NTU	105.3 mV	17.99 ft	200.00 ml/min
8/15/2023 5:50 PM	01:15:00	5.97 pH	19.37 °C	332.09 µS/cm	0.21 mg/L	4.76 NTU	104.6 mV	17.99 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/11/2023 9:15:49 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-26D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 59.57 ft Total Depth: 69.57 ft Initial Depth to Water: 33.76 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 64 ft Estimated Total Volume Pumped: 13.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 275 ml/min Final Draw Down: 30 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1005. Rainy 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/11/2023 9:15 AM	00:00	5.77 pH	20.65 °C	1,035.9 µS/cm		57.40 NTU	135.9 mV	33.76 ft	275.00 ml/min
8/11/2023 9:20 AM	05:00	5.68 pH	19.59 °C	1,027.0 µS/cm	1.74 mg/L	22.80 NTU	151.3 mV	35.10 ft	275.00 ml/min
8/11/2023 9:25 AM	10:00	5.67 pH	19.35 °C	1,032.8 µS/cm	1.12 mg/L	16.80 NTU	139.4 mV	36.30 ft	275.00 ml/min
8/11/2023 9:30 AM	15:00	5.68 pH	19.31 °C	1,011.2 µS/cm	0.87 mg/L	19.70 NTU	129.6 mV	36.30 ft	275.00 ml/min
8/11/2023 9:35 AM	20:00	5.69 pH	19.32 °C	1,008.3 µS/cm	0.76 mg/L	11.40 NTU	124.3 mV	36.30 ft	275.00 ml/min
8/11/2023 9:40 AM	25:00	5.69 pH	19.32 °C	1,005.0 µS/cm	0.80 mg/L	7.97 NTU	122.5 mV	36.30 ft	275.00 ml/min
8/11/2023 9:45 AM	30:00	5.69 pH	19.39 °C	998.57 µS/cm	0.88 mg/L	4.68 NTU	102.0 mV	36.30 ft	275.00 ml/min
8/11/2023 9:50 AM	35:00	5.69 pH	19.42 °C	991.99 µS/cm	0.95 mg/L	4.74 NTU	101.6 mV	36.30 ft	275.00 ml/min
8/11/2023 9:55 AM	40:00	5.68 pH	19.36 °C	990.62 µS/cm	1.05 mg/L	4.01 NTU	120.2 mV	36.30 ft	275.00 ml/min
8/11/2023 10:00 AM	45:00	5.67 pH	19.54 °C	984.14 µS/cm	1.10 mg/L	3.68 NTU	103.9 mV	36.30 ft	275.00 ml/min
8/11/2023 10:05 AM	50:00	5.67 pH	19.34 °C	985.15 µS/cm	1.13 mg/L	3.07 NTU	122.6 mV	36.30 ft	275.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/11/2023 11:35:54 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-27 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.1 ft Total Depth: 42.18 ft Initial Depth to Water: 11.17 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 18.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 275 ml/min Final Draw Down: 101 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1240. Raining 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/11/2023 11:35 AM	00:00	6.44 pH	20.03 °C	407.03 µS/cm	0.75 mg/L	9.53 NTU	26.8 mV	11.17 ft	275.00 ml/min
8/11/2023 11:40 AM	05:00	6.41 pH	19.33 °C	336.02 µS/cm	2.02 mg/L	8.37 NTU	33.1 mV	17.60 ft	275.00 ml/min
8/11/2023 11:45 AM	10:00	6.37 pH	18.88 °C	289.59 µS/cm	2.61 mg/L	5.17 NTU	40.0 mV	18.20 ft	275.00 ml/min
8/11/2023 11:50 AM	15:00	6.32 pH	19.06 °C	255.08 µS/cm	3.38 mg/L	3.43 NTU	46.8 mV	19.40 ft	275.00 ml/min
8/11/2023 11:55 AM	20:00	6.29 pH	19.06 °C	231.49 µS/cm	3.47 mg/L	2.19 NTU	52.8 mV	19.60 ft	275.00 ml/min
8/11/2023 12:00 PM	25:00	6.15 pH	20.33 °C	229.75 µS/cm	3.30 mg/L	2.73 NTU	57.7 mV	19.60 ft	275.00 ml/min
8/11/2023 12:05 PM	30:00	6.15 pH	19.42 °C	173.63 µS/cm	4.33 mg/L	2.42 NTU	63.0 mV	19.60 ft	275.00 ml/min
8/11/2023 12:10 PM	35:00	6.16 pH	19.46 °C	204.90 µS/cm	4.19 mg/L	2.11 NTU	68.0 mV	19.60 ft	275.00 ml/min
8/11/2023 12:15 PM	40:00	6.18 pH	19.10 °C	176.58 µS/cm	4.57 mg/L	2.07 NTU	73.6 mV	19.60 ft	275.00 ml/min
8/11/2023 12:20 PM	45:00	6.13 pH	19.46 °C	187.51 µS/cm	4.57 mg/L	1.69 NTU	76.2 mV	19.60 ft	275.00 ml/min
8/11/2023 12:25 PM	50:00	6.10 pH	19.46 °C	170.52 µS/cm	4.76 mg/L	1.85 NTU	74.1 mV	19.60 ft	275.00 ml/min
8/11/2023 12:30 PM	55:00	6.07 pH	19.56 °C	164.20 µS/cm	4.80 mg/L	1.59 NTU	76.3 mV	19.60 ft	275.00 ml/min
8/11/2023 12:35 PM	01:00:00	6.02 pH	19.40 °C	159.06 µS/cm	4.87 mg/L	1.27 NTU	87.1 mV	19.60 ft	275.00 ml/min
8/11/2023 12:40 PM	01:05:00	6.07 pH	19.50 °C	157.37 µS/cm	4.83 mg/L	1.64 NTU	78.6 mV	19.60 ft	275.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/26/2023 2:53:31 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-28D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 196 ft Total Depth: 206 ft Initial Depth to Water: 33.19 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 202 ft Estimated Total Volume Pumped: 22.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 229 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time 1753. Cloudy 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/26/2023 2:53 PM	00:00	6.68 pH	25.38 °C	2,043.1 µS/cm	0.64 mg/L	8.41 NTU	15.8 mV	33.19 ft	115.00 ml/min
9/26/2023 2:58 PM	05:00	6.72 pH	24.35 °C	2,059.4 µS/cm	0.37 mg/L	9.03 NTU	-6.1 mV	33.70 ft	115.00 ml/min
9/26/2023 3:03 PM	10:00	6.76 pH	24.40 °C	2,067.3 µS/cm	0.27 mg/L	8.99 NTU	-15.9 mV	34.60 ft	115.00 ml/min
9/26/2023 3:08 PM	15:00	6.78 pH	25.08 °C	2,072.7 µS/cm	0.24 mg/L	8.89 NTU	-20.3 mV	35.30 ft	115.00 ml/min
9/26/2023 3:13 PM	20:00	6.84 pH	25.31 °C	2,063.4 µS/cm	0.21 mg/L	8.73 NTU	-21.1 mV	36.10 ft	115.00 ml/min
9/26/2023 3:18 PM	25:00	6.89 pH	24.33 °C	2,067.1 µS/cm	0.20 mg/L	8.81 NTU	-21.7 mV	36.70 ft	115.00 ml/min
9/26/2023 3:23 PM	30:00	6.94 pH	24.46 °C	2,078.4 µS/cm	0.19 mg/L	8.43 NTU	-23.5 mV	37.20 ft	115.00 ml/min
9/26/2023 3:28 PM	35:00	7.00 pH	24.52 °C	2,069.0 µS/cm	0.18 mg/L	7.74 NTU	-24.4 mV	37.80 ft	115.00 ml/min
9/26/2023 3:33 PM	40:00	7.06 pH	23.75 °C	2,079.3 µS/cm	0.17 mg/L	8.08 NTU	-25.2 mV	38.50 ft	115.00 ml/min
9/26/2023 3:38 PM	45:00	7.10 pH	23.56 °C	2,073.5 µS/cm	0.16 mg/L	7.97 NTU	-27.1 mV	39.30 ft	140.00 ml/min
9/26/2023 3:43 PM	50:00	7.14 pH	22.45 °C	2,088.5 µS/cm	2.67 mg/L	9.06 NTU	33.2 mV	40.50 ft	140.00 ml/min
9/26/2023 3:48 PM	55:00	7.13 pH	22.07 °C	2,074.1 µS/cm	0.58 mg/L	8.34 NTU	18.7 mV	41.40 ft	140.00 ml/min
9/26/2023 3:53 PM	01:00:00	7.16 pH	21.61 °C	2,093.3 µS/cm	0.37 mg/L	7.41 NTU	-9.5 mV	42.20 ft	140.00 ml/min
9/26/2023 3:58 PM	01:05:00	7.20 pH	22.27 °C	2,075.9 µS/cm	0.27 mg/L	7.37 NTU	-13.4 mV	43.00 ft	140.00 ml/min
9/26/2023 4:03 PM	01:10:00	7.23 pH	23.10 °C	2,063.4 µS/cm	0.30 mg/L	7.13 NTU	-13.2 mV	43.80 ft	140.00 ml/min

9/26/2023 4:08 PM	01:15:00	7.24 pH	22.60 °C	2,037.6 µS/cm	0.37 mg/L	7.18 NTU	-8.7 mV	44.30 ft	140.00 ml/min
9/26/2023 4:13 PM	01:20:00	7.24 pH	22.44 °C	2,036.0 µS/cm	0.31 mg/L	7.05 NTU	-12.2 mV	44.70 ft	140.00 ml/min
9/26/2023 4:18 PM	01:25:00	7.27 pH	22.13 °C	2,051.8 µS/cm	0.27 mg/L	7.30 NTU	-15.5 mV	45.20 ft	140.00 ml/min
9/26/2023 4:23 PM	01:30:00	7.29 pH	22.00 °C	2,051.1 µS/cm	0.24 mg/L	6.90 NTU	-17.3 mV	45.90 ft	140.00 ml/min
9/26/2023 4:28 PM	01:35:00	7.31 pH	21.67 °C	2,060.3 µS/cm	0.23 mg/L	7.54 NTU	-18.3 mV	46.60 ft	140.00 ml/min
9/26/2023 4:33 PM	01:40:00	7.29 pH	21.48 °C	2,085.4 µS/cm	0.22 mg/L	7.30 NTU	-22.0 mV	47.30 ft	140.00 ml/min
9/26/2023 4:38 PM	01:45:00	7.29 pH	22.00 °C	2,078.6 µS/cm	0.21 mg/L	7.23 NTU	-22.8 mV	48.00 ft	140.00 ml/min
9/26/2023 4:43 PM	01:50:00	7.28 pH	22.35 °C	2,063.2 µS/cm	0.19 mg/L	7.03 NTU	-21.3 mV	48.70 ft	140.00 ml/min
9/26/2023 4:48 PM	01:55:00	7.26 pH	21.73 °C	2,080.0 µS/cm	0.20 mg/L	7.20 NTU	-24.4 mV	49.30 ft	140.00 ml/min
9/26/2023 4:53 PM	02:00:00	7.30 pH	22.48 °C	2,050.7 µS/cm	0.18 mg/L	7.15 NTU	-22.7 mV	49.90 ft	140.00 ml/min
9/26/2023 4:58 PM	02:05:00	7.30 pH	22.56 °C	2,043.2 µS/cm	0.18 mg/L	7.24 NTU	-22.8 mV	50.00 ft	140.00 ml/min
9/26/2023 5:03 PM	02:10:00	7.30 pH	22.17 °C	2,044.0 µS/cm	0.18 mg/L	7.20 NTU	-22.7 mV	50.70 ft	140.00 ml/min
9/26/2023 5:08 PM	02:15:00	7.30 pH	22.03 °C	2,062.0 µS/cm	0.18 mg/L	7.44 NTU	-23.1 mV	51.40 ft	115.00 ml/min
9/26/2023 5:13 PM	02:20:00	7.30 pH	22.63 °C	2,055.2 µS/cm	0.18 mg/L	7.06 NTU	-23.1 mV	51.80 ft	115.00 ml/min
9/26/2023 5:18 PM	02:25:00	7.32 pH	23.72 °C	2,052.7 µS/cm	0.19 mg/L	6.42 NTU	-19.7 mV	51.80 ft	115.00 ml/min
9/26/2023 5:23 PM	02:30:00	7.30 pH	22.70 °C	2,038.8 µS/cm	0.21 mg/L	6.49 NTU	-17.2 mV	52.00 ft	100.00 ml/min
9/26/2023 5:28 PM	02:35:00	7.30 pH	22.59 °C	2,054.6 µS/cm	0.21 mg/L	6.22 NTU	-18.7 mV	52.10 ft	100.00 ml/min
9/26/2023 5:33 PM	02:40:00	7.30 pH	23.19 °C	2,058.2 µS/cm	0.19 mg/L	6.98 NTU	-20.1 mV	52.20 ft	100.00 ml/min
9/26/2023 5:38 PM	02:45:00	7.32 pH	23.71 °C	2,040.7 µS/cm	0.19 mg/L	6.01 NTU	-19.9 mV	52.20 ft	100.00 ml/min
9/26/2023 5:43 PM	02:50:00	7.32 pH	23.06 °C	2,057.4 µS/cm	0.20 mg/L	6.55 NTU	-18.6 mV	52.30 ft	100.00 ml/min
9/26/2023 5:48 PM	02:55:00	7.32 pH	23.07 °C	2,044.0 µS/cm	0.20 mg/L	6.66 NTU	-18.5 mV	52.30 ft	100.00 ml/min
9/26/2023 5:53 PM	03:00:00	7.33 pH	22.88 °C	2,050.2 µS/cm	0.19 mg/L	6.36 NTU	-19.7 mV	52.30 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 11/7/2023 11:20:07 AM

Project: Plant Wansley Ashpond

Operator Name: J. Berisford

Location Name: WGWC-28D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 196 ft Total Depth: 206 ft Initial Depth to Water: 34.17 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Tubing Length: 206 ft Pump Intake From TOC: 201 ft Estimated Total Volume Pumped: 22.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 203 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, sample time -1405

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
11/7/2023 11:20 AM	00:00	5.55 pH	22.30 °C	1,586.7 µS/cm	3.35 mg/L	6.13 NTU	46.2 mV	34.17 ft	150.00 ml/min
11/7/2023 11:25 AM	05:00	5.77 pH	15.34 °C	1,881.8 µS/cm	2.19 mg/L	6.71 NTU	-33.3 mV	35.50 ft	150.00 ml/min
11/7/2023 11:30 AM	10:00	5.82 pH	15.61 °C	1,852.0 µS/cm	0.92 mg/L	5.99 NTU	-6.9 mV	36.20 ft	150.00 ml/min
11/7/2023 11:35 AM	15:00	5.81 pH	15.78 °C	1,845.9 µS/cm	0.55 mg/L	4.44 NTU	-21.0 mV	36.80 ft	150.00 ml/min
11/7/2023 11:40 AM	20:00	5.80 pH	15.56 °C	1,857.3 µS/cm	0.41 mg/L	4.16 NTU	-29.1 mV	37.40 ft	150.00 ml/min
11/7/2023 11:45 AM	25:00	5.81 pH	15.58 °C	1,859.2 µS/cm	0.32 mg/L	3.42 NTU	-39.6 mV	38.20 ft	150.00 ml/min
11/7/2023 11:50 AM	30:00	5.82 pH	15.60 °C	1,862.7 µS/cm	0.27 mg/L	3.62 NTU	-47.0 mV	39.00 ft	150.00 ml/min
11/7/2023 11:55 AM	35:00	5.84 pH	15.56 °C	1,865.4 µS/cm	0.22 mg/L	3.90 NTU	-54.2 mV	39.80 ft	150.00 ml/min
11/7/2023 12:00 PM	40:00	5.85 pH	15.42 °C	1,868.8 µS/cm	0.20 mg/L	4.01 NTU	-60.0 mV	40.40 ft	150.00 ml/min
11/7/2023 12:05 PM	45:00	5.87 pH	15.45 °C	1,874.1 µS/cm	0.17 mg/L	4.32 NTU	-62.3 mV	41.40 ft	150.00 ml/min
11/7/2023 12:10 PM	50:00	5.87 pH	15.62 °C	1,913.7 µS/cm	0.15 mg/L	4.01 NTU	-69.7 mV	42.00 ft	150.00 ml/min
11/7/2023 12:15 PM	55:00	5.90 pH	16.72 °C	1,889.7 µS/cm	0.16 mg/L	4.08 NTU	-71.7 mV	42.70 ft	150.00 ml/min
11/7/2023 12:20 PM	01:00:00	5.94 pH	16.94 °C	1,880.4 µS/cm	0.17 mg/L	4.12 NTU	-72.5 mV	43.50 ft	150.00 ml/min
11/7/2023 12:25 PM	01:05:00	5.99 pH	16.92 °C	1,877.6 µS/cm	0.16 mg/L	4.44 NTU	-76.0 mV	44.20 ft	150.00 ml/min

11/7/2023 12:30 PM	01:10:00	6.03 pH	16.57 °C	1,894.9 µS/cm	0.17 mg/L	4.39 NTU	-76.6 mV	45.00 ft	150.00 ml/min
11/7/2023 12:35 PM	01:15:00	6.06 pH	17.05 °C	1,893.5 µS/cm	0.15 mg/L	4.62 NTU	-123.7 mV	45.80 ft	150.00 ml/min
11/7/2023 12:40 PM	01:20:00	6.10 pH	16.73 °C	1,906.1 µS/cm	0.15 mg/L	4.51 NTU	-86.7 mV	46.30 ft	150.00 ml/min
11/7/2023 12:45 PM	01:25:00	6.14 pH	17.32 °C	1,893.5 µS/cm	0.13 mg/L	4.68 NTU	-85.0 mV	47.10 ft	150.00 ml/min
11/7/2023 12:50 PM	01:30:00	6.18 pH	17.24 °C	1,884.6 µS/cm	0.13 mg/L	4.88 NTU	-87.4 mV	47.90 ft	150.00 ml/min
11/7/2023 12:55 PM	01:35:00	6.22 pH	17.09 °C	1,901.3 µS/cm	0.13 mg/L	4.95 NTU	-89.5 mV	48.60 ft	150.00 ml/min
11/7/2023 1:00 PM	01:40:00	6.23 pH	18.17 °C	1,889.9 µS/cm	0.13 mg/L	4.82 NTU	-106.9 mV	49.10 ft	150.00 ml/min
11/7/2023 1:05 PM	01:45:00	6.28 pH	17.49 °C	1,894.3 µS/cm	0.13 mg/L	5.09 NTU	-113.4 mV	49.80 ft	150.00 ml/min
11/7/2023 1:10 PM	01:50:00	6.32 pH	17.16 °C	1,893.8 µS/cm	0.13 mg/L	4.86 NTU	-119.0 mV	50.20 ft	150.00 ml/min
11/7/2023 1:15 PM	01:55:00	6.34 pH	17.29 °C	1,907.1 µS/cm	0.12 mg/L	4.67 NTU	-128.3 mV	50.40 ft	100.00 ml/min
11/7/2023 1:20 PM	02:00:00	6.37 pH	17.29 °C	1,895.1 µS/cm	0.12 mg/L	4.81 NTU	-134.5 mV	50.60 ft	100.00 ml/min
11/7/2023 1:25 PM	02:05:00	6.39 pH	17.37 °C	1,899.6 µS/cm	0.11 mg/L	4.65 NTU	-141.9 mV	50.70 ft	100.00 ml/min
11/7/2023 1:30 PM	02:10:00	6.40 pH	17.89 °C	1,896.0 µS/cm	0.12 mg/L	4.88 NTU	-149.1 mV	50.80 ft	100.00 ml/min
11/7/2023 1:35 PM	02:15:00	6.42 pH	17.96 °C	1,891.0 µS/cm	0.11 mg/L	4.52 NTU	-155.2 mV	50.90 ft	100.00 ml/min
11/7/2023 1:40 PM	02:20:00	6.44 pH	17.81 °C	1,893.2 µS/cm	0.11 mg/L	5.03 NTU	-161.2 mV	51.00 ft	100.00 ml/min
11/7/2023 1:45 PM	02:25:00	6.46 pH	17.81 °C	1,892.0 µS/cm	0.11 mg/L	4.79 NTU	-166.8 mV	51.00 ft	100.00 ml/min
11/7/2023 1:50 PM	02:30:00	6.46 pH	17.82 °C	1,899.1 µS/cm	0.11 mg/L	4.82 NTU	-172.6 mV	51.10 ft	100.00 ml/min
11/7/2023 1:55 PM	02:35:00	6.47 pH	18.23 °C	1,890.9 µS/cm	0.11 mg/L	4.85 NTU	-178.7 mV	51.10 ft	100.00 ml/min
11/7/2023 2:00 PM	02:40:00	6.48 pH	18.40 °C	1,882.3 µS/cm	0.10 mg/L	4.92 NTU	-183.5 mV	51.10 ft	100.00 ml/min
11/7/2023 2:05 PM	02:45:00	6.48 pH	18.41 °C	1,882.2 µS/cm	0.10 mg/L	4.77 NTU	-187.4 mV	51.10 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2023 11:37:54 AM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

Location Name: WCR(+0.1)	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sampled at 1139. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3
8/16/2023 11:37 AM	00:00	6.98 pH	25.81 °C	122.13 µS/cm	7.16 mg/L		151.9 mV	
8/16/2023 11:39 AM	01:30	7.02 pH	25.86 °C	125.76 µS/cm	7.07 mg/L	25.50 NTU	149.1 mV	

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2023 12:08:10 PM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

Location Name: WCR(+1.9)	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sampled at 1209. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3
8/16/2023 12:08 PM	00:00	7.19 pH	26.04 °C	104.01 µS/cm	7.39 mg/L		129.7 mV	
8/16/2023 12:09 PM	01:30	7.15 pH	26.00 °C	106.13 µS/cm	6.97 mg/L	26.40 NTU	125.7 mV	

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2023 10:59:17 AM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

Location Name: WCR(-0.6)	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sampled at 1101. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3
8/16/2023 10:59 AM	00:00	6.30 pH	25.04 °C	228.17 µS/cm	7.93 mg/L		181.9 mV	
8/16/2023 11:00 AM	01:30	6.57 pH	25.22 °C	243.42 µS/cm	8.07 mg/L	16.40 NTU	184.6 mV	

Samples

Sample ID:	Description:
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Plant Wansley Ash Pond

Staff: AS

Start Date: 08/07/23

End Date: 08/08/23

Start time: 1255

End time: 1115

Well ID	Total Depth (ft btoc)	Depth to Water (ft btoc)
WGWA-1	129.86	30.38
WGWA-2	102.65	14.20
WGWA-3	19.00	3.90
WGWA-4	73.90	6.50
WGWA-5	23.60	17.52
WGWA-6	104.50	17.77
WGWA-7	39.60	27.56
WGWA-18	39.60	20.52
WGWC-8	59.63	7.47
WGWC-9	61.08	20.56
WGWC-10	148.98	21.58
WGWC-11	49.50	27.76
WGWC-12	76.57	27.29
WGWC-13	95.55	24.05
WGWC-14		23.58
WGWC-14A	43.08	24.23
WGWC-15	53.36	19.39
WGWC-16	34.78	18.88
WGWC-17	95.94	29.16
WGWC-19	94.84	20.76
WGWC-20	43.87	32.43

Well ID	Total Depth (ft btoc)	Depth to Water (ft btoc)
WGWC-21	71.75	50.33
WGWC-22	43.88	20.46
WGWC-23	53.70	32.63
WGWC-24	40.75	17.42
WGWC-25	39.83	18.33
WGWC-26D		33.93
WGWC-27		11.17
PZ-1	46.10	38.32
PZ-4	17.00	17.52
PZ-6		23.23
PZ-8	37.50	29.46
PZ-10	30.00	28.90
PZ-11	30.00	23.99
PZ-12	49.40	30.81
PZ-15	37.00	29.13
PZ-16	24.50	13.71
PZ-17	48.00	38.13
PZ-18	37.00	19.30
PZ-20	35.00	18.16
WAMW-1	124.14	21.12
WAMW-2	86.14	14.37



Daily Instrument Calibration Log

SITE: Plant Wansley
 TECHNICIAN: A Schmittler
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 377060

INSTRUMENT S/N: 714293
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS/ID: pH 4 LOT #: 26E870 EXP. DATE: 5/24
pH 7 LOT #: 16B200 EXP. DATE: 2/23
pH 10 LOT #: 16F458 EXP. DATE: 6/23
Cond LOT #: 26F806 EXP. DATE: 06/23
ORP LOT #: 2140H3 EXP. DATE: 4/23

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 1/17/23

RDO: 100% sat. = 105.14 Midday pH check
 PH: 4.00 = 3.69 7.00 = 7.07 10.00 = 10.12 7.0 = 7.02
 PH Recal (if needed): 4.00 = NA 7.00 = NA 10.00 = NA 7.0 = NA post recal check
 CONDUCTIVITY: 1413 = 1536.1
 ORP (mV) 228 = 225.1

Calibration Date: 1/18/23

RDO: 100% sat. = 101.46 Midday pH check
 PH: 4.00 = 4.33 7.00 = 7.17 10.00 = 10.19 7.0 = 7.00
 PH Recal (if needed): 4.00 = NA 7.00 = NA 10.00 = NA 7.0 = NA post recal check
 CONDUCTIVITY: 1413 = 1466.1
 ORP (mV) 228 = 221.9

Calibration Date: 1/19/23

RDO: 100% sat. = 100.86 Midday pH check
 PH: 4.00 = 4.01 7.00 = 7.03 10.00 = 9.99 7.0 = 7.01
 PH Recal (if needed): 4.00 = NA 7.00 = NA 10.00 = NA 7.0 = NA post recal check
 CONDUCTIVITY: 1413 = 1285.1
 ORP (mV) 228 = 235.9

Calibration Date: 1/20/23

RDO: 100% sat. = 100.16 Midday pH check
 PH: 4.00 = 4.18 7.00 = 7.16 10.00 = 9.93 7.0 = 7.02
 PH Recal (if needed): 4.00 = NA 7.00 = NA 10.00 = NA 7.0 = NA post recal check
 CONDUCTIVITY: 1413 = 1477.1
 ORP (mV) 228 = 243.2

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: A Schmitt

INSTRUMENT S/N: Hach 2100 Q
INSTRUMENT TYPE: 16040C049743
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: Push D1
10 NTU - LOT # A2090 EXP. DATE: 7/23
20 NTU - LOT # A2085 EXP. DATE: 7/23

Calibration Date: 1/17/23

Calibration Solution	Instrument Reading	
0.0	0.55	NTU
10.0	9.30	NTU
20.0	20.1	NTU

Calibration Date: 1/18/23

Calibration Solution	Instrument Reading	
0.0	0.31	NTU
10.0	10.0	NTU
20.0	20.1	NTU

Calibration Date: 1/19/23

Calibration Solution	Instrument Reading	
0.0	0.21	NTU
10.0	9.94	NTU
20.0	19.9	NTU

Calibration Date: 1/20/23

Calibration Solution	Instrument Reading	
0.0	0.14	NTU
10.0	9.97	NTU
20.0	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 Report

Instrument Aqua TROLL 400
Serial Number 965658
Created 2/16/2023

Sensor **RDO**

Serial Number 964434
Last Calibrated 2/16/2023

Calibration Details

Slope 1.045475
Offset 0.00 mg/L

Calibration point 100%

Concentration 9.17 mg/L
Temperature 16.37 °C
Barometric Pressure 992.28 mbar

Sensor **Conductivity**

Serial Number 965658
Last Calibrated 2/16/2023

Calibration Details

Cell Constant 0.957
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 962246
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22007
Last Calibrated	2/16/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	131.1 mV
Temperature	17.09 °C

Calibration Point 2

pH of Buffer	7.04 pH
pH mV	-39.1 mV
Temperature	16.91 °C

Calibration Point 3

pH of Buffer	10.11 pH
pH mV	-209.1 mV
Temperature	16.99 °C

Slope and Offset 1

Slope	-56 mV/pH
Offset	-36.8 mV

Slope and Offset 2

Slope	-55.38 mV/pH
Offset	-36.9 mV

ORP

ORP Solution	Zobell's
Offset	37.9 mV
Temperature	16.69 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 965658
Created 2/15/2023

Sensor **RDO**

Serial Number 964434
Last Calibrated 2/15/2023

Calibration Details

Slope 1.080535
Offset 0.00 mg/L

Calibration point 100%

Concentration 9.02 mg/L
Temperature 15.66 °C
Barometric Pressure 994.00 mbar

Sensor **Conductivity**

Serial Number 965658
Last Calibrated 2/15/2023

Calibration Details

Cell Constant 0.935
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 962246
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22007
Last Calibrated	2/15/2023

Calibration Details

Total Calibration Points	1
--------------------------	---

Calibration Point 1

pH of Buffer	7.04 pH
pH mV	-38.4 mV
Temperature	16.15 °C

Slope and Offset 1

Slope	-57.4 mV/pH
Offset	-36.1 mV

ORP

ORP Solution	Zobell's
Offset	37.5 mV
Temperature	16.26 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 877800
Created 2/17/2023

Sensor **RDO**
Serial Number 878537
Last Calibrated 2/17/2023

Calibration Details

Slope 1.102722
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.91 mg/L
Temperature 14.52 °C
Barometric Pressure 989.07 mbar

Sensor **Conductivity**
Serial Number 877800
Last Calibrated 2/17/2023

Calibration Details

Cell Constant 1.002
Reference Temperature 20.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**
Serial Number 850056
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21624
Last Calibrated	2/17/2023

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	135.8 mV
Temperature	13.09 °C

Calibration Point 2

pH of Buffer	7.04 pH
pH mV	-24.7 mV
Temperature	14.25 °C

Calibration Point 3

pH of Buffer	10.11 pH
pH mV	-166.9 mV
Temperature	14.33 °C

Slope and Offset 1

Slope	-52.79 mV/pH
Offset	-22.6 mV

Slope and Offset 2

Slope	-46.34 mV/pH
Offset	-22.8 mV

ORP

ORP Solution	Zobell's
Offset	58.6 mV
Temperature	14.13 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 877800
Created 2/16/2023

Sensor **RDO**

Serial Number 878537
Last Calibrated 2/16/2023

Calibration Details

Slope 1.103515
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.81 mg/L
Temperature 13.97 °C
Barometric Pressure 992.85 mbar

Sensor **Conductivity**

Serial Number 877800
Last Calibrated 2/16/2023

Calibration Details

Cell Constant 0.927
Reference Temperature 20.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 850056
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21624
Last Calibrated	2/16/2023

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	134.8 mV
Temperature	13.59 °C

Calibration Point 2

pH of Buffer	7.04 pH
pH mV	-25.7 mV
Temperature	14.15 °C

Calibration Point 3

pH of Buffer	10.11 pH
pH mV	-166.8 mV
Temperature	13.70 °C

Slope and Offset 1

Slope	-52.8 mV/pH
Offset	-23.6 mV

Slope and Offset 2

Slope	-45.94 mV/pH
Offset	-23.9 mV

ORP

ORP Solution	Zobell's
Offset	50.4 mV
Temperature	14.04 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 877800
Created 2/14/2023

Sensor **RDO**

Serial Number 878537
Last Calibrated 2/14/2023

Calibration Details

Slope 1.146566
Offset 0.00 mg/L

Calibration point 100%

Concentration 9.17 mg/L
Temperature 12.03 °C
Barometric Pressure 992.91 mbar

Sensor **Conductivity**

Serial Number 877800
Last Calibrated 2/14/2023

Calibration Details

Cell Constant 0.76
Reference Temperature 20.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 850056
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21624
Last Calibrated	2/14/2023

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	131.4 mV
Temperature	5.32 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-24.9 mV
Temperature	6.63 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-162.9 mV
Temperature	7.12 °C

Slope and Offset 1

Slope	-51.08 mV/pH
Offset	-21.8 mV

Slope and Offset 2

Slope	-44.83 mV/pH
Offset	-22.2 mV

ORP

ORP Solution	Zobell's
Offset	39.1 mV
Temperature	7.95 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 965678
Created 2/16/2023

Sensor **RDO**

Serial Number 964485
Last Calibrated 2/16/2023

Calibration Details

Slope 1.030878
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.76 mg/L
Temperature 19.30 °C
Barometric Pressure 992.82 mbar

Sensor **Conductivity**

Serial Number 965678
Last Calibrated 2/16/2023

Calibration Details

Cell Constant 0.961
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 965199
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21997
Last Calibrated	2/16/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 129.8 mV
Temperature 18.63 °C

Calibration Point 2

pH of Buffer 7.02 pH
pH mV -33.8 mV
Temperature 18.61 °C

Calibration Point 3

pH of Buffer 10.05 pH
pH mV -207.7 mV
Temperature 18.66 °C

Slope and Offset 1

Slope -54.19 mV/pH
Offset -32.7 mV

Slope and Offset 2

Slope -57.39 mV/pH
Offset -32.7 mV

ORP

ORP Solution Zobell's
Offset 31.8 mV
Temperature 18.70 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 884186
Created 2/16/2023

Sensor **RDO**
Serial Number 884407
Last Calibrated 2/16/2023

Calibration Details

Slope 0.9175784
Offset 0.00 mg/L

Calibration point 100%

Concentration 10.36 mg/L
Temperature 16.69 °C
Barometric Pressure 990.94 mbar

Sensor **Conductivity**
Serial Number 884186
Last Calibrated 2/16/2023

Calibration Details

Cell Constant 0.878
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**
Serial Number 879252
Last Calibrated 3/1/2022

Calibration Details

Zero Offset -0.13 psi
Reference Depth 0.00 ft
Reference Offset 0.00 psi

Sensor	pH/ORP
Serial Number	21630
Last Calibrated	2/16/2023

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	133.1 mV
Temperature	15.69 °C

Calibration Point 2

pH of Buffer	7.04 pH
pH mV	-26.9 mV
Temperature	14.96 °C

Calibration Point 3

pH of Buffer	10.11 pH
pH mV	-181.2 mV
Temperature	15.22 °C

Slope and Offset 1

Slope	-52.62 mV/pH
Offset	-24.8 mV

Slope and Offset 2

Slope	-50.28 mV/pH
Offset	-24.9 mV

ORP

ORP Solution	Zobell's
Offset	41.6 mV
Temperature	14.72 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 884186
Created 2/15/2023

Sensor **RDO**
Serial Number 884407
Last Calibrated 2/15/2023

Calibration Details

Slope 0.9246063
Offset 0.00 mg/L

Calibration point 100%

Concentration 10.74 mg/L
Temperature 14.72 °C
Barometric Pressure 992.15 mbar

Sensor **Conductivity**
Serial Number 884186
Last Calibrated 2/15/2023

Calibration Details

Cell Constant 0.908
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**
Serial Number 879252
Last Calibrated 3/1/2022

Calibration Details

Zero Offset -0.13 psi
Reference Depth 0.00 ft
Reference Offset 0.00 psi

Sensor	pH/ORP
Serial Number	21630
Last Calibrated	2/15/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 139.3 mV
Temperature 14.17 °C

Calibration Point 2

pH of Buffer 7.04 pH
pH mV -19.4 mV
Temperature 13.78 °C

Calibration Point 3

pH of Buffer 10.11 pH
pH mV -178.9 mV
Temperature 14.00 °C

Slope and Offset 1

Slope -52.23 mV/pH
Offset -17.4 mV

Slope and Offset 2

Slope -51.93 mV/pH
Offset -17.4 mV

ORP

ORP Solution Zobell's
Offset 41.5 mV
Temperature 13.68 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 884186
Created 2/14/2023

Sensor **RDO**
Serial Number 884407
Last Calibrated 2/14/2023

Calibration Details

Slope 0.9223402
Offset 0.00 mg/L

Calibration point 100%

Concentration 13.76 mg/L
Temperature 4.47 °C
Barometric Pressure 993.84 mbar

Sensor **Conductivity**
Serial Number 884186
Last Calibrated 2/14/2023

Calibration Details

Cell Constant 0.894
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**
Serial Number 879252
Last Calibrated 3/1/2022

Calibration Details

Zero Offset -0.13 psi
Reference Depth 0.00 ft
Reference Offset 0.00 psi

Sensor	pH/ORP
Serial Number	21630
Last Calibrated	2/14/2023

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	139.7 mV
Temperature	5.86 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-19.1 mV
Temperature	4.77 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-177.8 mV
Temperature	5.27 °C

Slope and Offset 1

Slope	-51.9 mV/pH
Offset	-16.0 mV

Slope and Offset 2

Slope	-51.51 mV/pH
Offset	-16.0 mV

ORP

ORP Solution	Zobell's
Offset	35.5 mV
Temperature	7.23 °C



ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE:

Wansley Ash Pond

TECHNICIAN:

T. Goble

WATER LEVEL:

Solinst

WATER LEVEL S/N:

378591

INSTRUMENT S/N:

965658

INSTRUMENT TYPE:

AquaTroll

CAL. SOLUTIONS:

ID: pH 4

LOT #: 3GC916

EXP. DATE: 3/25

Manufact. Drift range

ID: pH 7

LOT #: 2GI304

EXP. DATE: 9/24

pH must be less than .10

ID: pH 10

LOT #: 2GB707

EXP. DATE: 2/24

(6.90-7.10 range)

ID: Conductivity

LOT #: 2GE995

EXP. DATE: 10/23

Conductivity must be within 1.0%

ID: ORP

LOT #: 3GD400

EXP. DATE: 1/24

(1399 - 1427 range)

Autocal

22250153

11/23

Calibration

Date: 8-14-23

Time: 1200

RDO: 100% sat. = 100.75

PH: 4.00 = 4.29

7.00 = 6.98

10.00 = 9.85

CONDUCTIVITY: 1413

= 1517

CONDUCTIVITY Recal: 1413

ORP (mV) 240

= 226.1

ORP Recal (mV) 240

Drift Check

Date: 8-14-23

Time: 1700

pH 7.00 = 7.06

SC 1413 = 1510

Calibration

Date: 8-15-23

Time: 0830

RDO: 100% sat. = 99.77

PH: 4.00 = 4.17

7.00 = 7.11

10.00 = 10.07

CONDUCTIVITY: ~~1413~~ 4490 = 4487

CONDUCTIVITY Recal: 1413

ORP (mV) 240

= 247.4

ORP Recal (mV) 240

Drift Check

Date: 8-15-23

Time: 1300

pH 7.00 = 6.99

SC ~~1413~~ ⁴⁴⁹⁰ = 4485



ATLANTIC COAST
CONSULTING, INC.

Calibration

Date: 8-15-23 Time: 1300

RDO: 100% sat. = 98.05 Recal 100% sat. =

PH: 4.00 = 4.09 7.00 = 7.03 10.00 = 10.00

CONDUCTIVITY: ~~1413~~ 4490 = 4483

CONDUCTIVITY Recal: 1413 =

ORP (mV) 240 = 228.3

ORP Recal (mV) 240 =

Drift Check

Date: 8-15-23 Time: 1830

pH 7.00 = 7.08 SC ~~1413~~⁴⁴⁹⁰ = 4511

Calibration

Date: 8-16-23 Time: 0830

RDO: 100% sat. = 103.3

PH: 4.00 = 4.02 7.00 = 7.21 10.00 = 9.99

CONDUCTIVITY: ~~1413~~ 4490 = 4777

Man. Drift range ~~1413~~ =

ORP (mV) 240 = 252.2

ORP Recal (mV) 240 =

Drift Check

Date: 8-16-23 Time: 1245

pH 7.00 = 7.02 SC ~~1413~~⁴⁴⁹⁰ = 4486

Calibration

Date: 8-16-23 Time: 1245

RDO: 100% sat. = 98.0

PH: 4.00 = 4.03 7.00 = 7.04 10.00 = 10.04

CONDUCTIVITY: ~~1413~~ 4490 = 4267

CONDUCTIVITY Recal: 1413 =

ORP (mV) 240 = 232.9

ORP Recal (mV) 240 =

Drift Check

Date: 8-16-23 Time: 1700

pH 7.00 = 7.04 SC ~~1413~~⁴⁴⁹⁰ = 4480

Calibration

Date: 8-17-23 Time: 0830

RDO: 100% sat. = 102.43

PH: 4.00 = 3.91 7.00 = 6.90 10.00 = 9.95

CONDUCTIVITY: ~~1413~~ 4490 = 4577

CONDUCTIVITY Recal: 1413 =

ORP (mV) 240 = 249.6

ORP Recal (mV) 240 =

Drift Check

Date: 8-17-23 Time: 1300

pH 7.00 = 7.02 SC ~~1413~~⁴⁴⁹⁰ = 4477



ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: Wansley Ash Pond
TECHNICIAN: T. GORDIE

INSTRUMENT S/N: 210305000600
INSTRUMENT TYPE: HAU 2000 Q
CAL. SOLUTION: 0 NTU - LOT # — EXP. DATE: New DI Water
10 NTU - LOT # A2264 EXP. DATE: 1/24
20 NTU - LOT # A2231 EXP. DATE: 12/23

Calibration Date: 8-14-23 Time: 1230

Calibration Solution	Instrument Reading	
0.0	<u>0.34</u>	NTU
10.0	<u>10.5</u>	NTU
20.0	<u>20.3</u>	NTU

Time: 1700
Midday Spot Check
10.0 = 10.7 NTU

Midday Calibration Time: NA (Cal after 1200)

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: 8-15-23 Time: 0830

Calibration Solution	Instrument Reading	
0.0	<u>0.41</u>	NTU
10.0	<u>10.7</u>	NTU
20.0	<u>20.4</u>	NTU

Time: 1300
Midday Spot Check
10.0 = 10.8 NTU

Midday Calibration Time: 1300

Cal Solution	Reading	
0.0	<u>0.36</u>	NTU
10.0	<u>10.5</u>	NTU
20.0	<u>20.6</u>	NTU

Calibration Date: 8-16-23 Time: 0830

Calibration Solution	Instrument Reading	
0.0	<u>0.36</u>	NTU
10.0	<u>10.5</u>	NTU
20.0	<u>20.2</u>	NTU

Time: 1230
Midday Spot Check
10.0 = 10.7 NTU

Midday Calibration Time: 1230

Cal Solution	Reading	
0.0	<u>0.28</u>	NTU
10.0	<u>10.1</u>	NTU
20.0	<u>20.1</u>	NTU

Calibration Date: Time: 0830

Calibration Solution	Instrument Reading	
0.0	<u>0.43</u>	NTU
10.0	<u>10.9</u>	NTU
20.0	<u>19.9</u>	NTU

Time: 1300
Midday Spot Check
10.0 = 10.9 NTU

Midday Calibration Time: NA (half day)

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:
Midday Spot Check
10.0 = NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:
Midday Spot Check
10.0 = NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:
Midday Spot Check
10.0 = NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU



ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: Plant Wansley
 TECHNICIAN: H. Auld
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 532172
 INSTRUMENT S/N: 714293/989619
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS: ID: pH 4 ~~24000044~~ LOT #: ~~24000044~~ EXP. DATE: 05/24

Sensor drift check pH must be less than .10 (6.90-7.10 range) Conductivity must be within 0.5% (1342-1484 range)	ID: pH 7	LOT #: 22110130	EXP. DATE: 04/24
	ID: pH 10	LOT #: 22290139	EXP. DATE: 04/24
	ID: Conductivity	LOT #: 251642	EXP. DATE: 09/23
	ID: ORP	LOT #: 3GD400	EXP. DATE: 01/24
	Cond. Auto Cal	24000044	05/2024

Calibration Date: 8/14/23 Time: 1200
 RDO: 100% sat. = 93.70 Recal 100% sat. = _____
 PH: 4.00 = 4.17 7.00 = 7.31 10.00 = 9.04
 CONDUCTIVITY: 1413 = 1466
 CONDUCTIVITY Recal: 1413 = _____
 ORP (mV) 240 = 236
 ORP Recal (mV) 240 = _____

Drift Check Date: _____ Time: _____ *No check, No well*
 pH 4.00 = _____ SC 1413 = *sampled.*

Calibration Date: 8/15/23 Time: 0815
 RDO: 100% sat. = 98.1% Recal 100% sat. = 102.9
 PH: 4.00 = 4.06, 4.09 7.00 = 6.78, 7.02 10.00 = 10.02
 CONDUCTIVITY: 1413 = 1578 9.99
 CONDUCTIVITY Recal: 1413 = 1462
 ORP (mV) 240 = 240
 ORP Recal (mV) 240 = 226

Drift Check Date: 8/15/23 Time: 1745
 pH 4.00 = 4.06 SC 1413 = 1399



ATLANTIC COAST
CONSULTING, INC.

Calibration

Date: 8/16/23 Time: 0830

RDO: 100% sat. = 96.3 Recal 100% sat. =

PH: 4.00 = 7.98 7.00 = 7.21 10.00 = 10.02

CONDUCTIVITY: 1413 4490 = 4049

CONDUCTIVITY Recal: 1413 =

ORP (mV) 240 = 230

ORP Recal (mV) 240 =

*No Recal/Drift
half day*

Drift Check

Date: _____ Time: _____

pH 4.00 = SC 1413 =

Calibration

Date: _____ Time: _____

RDO: 100% sat. = Recal 100% sat. =

PH: 4.00 = 7.00 = 10.00 =

CONDUCTIVITY: 1413 =

CONDUCTIVITY Recal: 1413 =

ORP (mV) 240 =

ORP Recal (mV) 240 =

Drift Check

Date: _____ Time: _____

pH 4.00 = SC 1413 =

Calibration

Date: _____ Time: _____

RDO: 100% sat. = Recal 100% sat. =

PH: 4.00 = 7.00 = 10.00 =

CONDUCTIVITY: 1413 =

CONDUCTIVITY Recal: 1413 =

ORP (mV) 240 =

ORP Recal (mV) 240 =

Drift Check

Date: _____ Time: _____

pH 4.00 = SC 1413 =

Calibration

Date: _____ Time: _____

RDO: 100% sat. = Recal 100% sat. =

PH: 4.00 = 7.00 = 10.00 =

CONDUCTIVITY: 1413 =

CONDUCTIVITY Recal: 1413 =

ORP (mV) 240 =

ORP Recal (mV) 240 =

Drift Check

Date: _____ Time: _____

pH 4.00 = SC 1413 =



Hunter A/d
Wansley Ash Pond

Daily Instrument Calibration Log

Calibration Date: 8/14/23 Time: 1330

Calibration Solution	Instrument Reading	
0.0	0.3	NTU
10.0	10.4	NTU
20.0	20.8	NTU

Time:
Midday Spot Check
10.0 = NA NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: 8/15/23 Time: 0900

Calibration Solution	Instrument Reading	
0.0	0.3	NTU
10.0	10.7	NTU
20.0	20.6	NTU

Time: 1300
Midday Spot Check
10.0 = 9.8 NTU

Midday Calibration Time: 1305

Cal Solution	Reading	
0.0	0.3	NTU
10.0	9.6	NTU
20.0	20.1	NTU

Calibration Date: 8/16/23 Time: 0900

Calibration Solution	Instrument Reading	
0.0	0.27	NTU
10.0	9.8	NTU
20.0	20.7	NTU

Time:
Midday Spot Check
10.0 = NA NTU
Half day

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:
Midday Spot Check
10.0 = NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:
Midday Spot Check
10.0 = NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:
Midday Spot Check
10.0 = NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:
Midday Spot Check
10.0 = NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

HACH 2100Q = 22080D001127

10 NTU = A3139, Exp. 8/2024

20 NTU = A3138, Exp. 8/2024



Daily Instrument Calibration Log

SITE: Plant Wansley LF
 TECHNICIAN: A Schnitler
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 377060

INSTRUMENT S/N: 728623
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:

ID: <u>pH 4</u>	LOT #: <u>264670</u>	EXP. DATE: <u>08/24</u>
ID: <u>pH 7</u>	LOT #: <u>260169</u>	EXP. DATE: <u>03/24</u>
ID: <u>pH 10</u>	LOT #: <u>266018</u>	EXP. DATE: <u>07/24</u>
ID: <u>Cond</u>	LOT #: <u>261642</u>	EXP. DATE: <u>09/23</u>
ID: <u>ORP</u>	LOT #: <u>21390144</u>	EXP. DATE: <u>11/23</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: 08/08/23 1225

RDO: 100% sat. = <u>112.89</u>				<i>Midday pH check</i>
PH: 4.00 = <u>4.12</u>	7.00 = <u>7.16</u>	10.00 = <u>10.02</u>	7.0 = <u>6.99</u>	
PH Recal (if needed): 4.00 = <u>NA</u>	7.00 = <u>NA</u>	10.00 = <u>NA</u>	7.0 = <u>6.99</u>	<i>post-recal check End of day</i>
CONDUCTIVITY: <u>1413</u>	= <u>1490.1</u>		<u>149.6</u>	
ORP (mV) <u>228</u>	= <u>214.1</u>			

Calibration Date: 08/09/23 0810

RDO: 100% sat. = <u>94.72</u>				<i>Midday pH check</i>	<u>1230</u>
PH: 4.00 = <u>4.07</u>	7.00 = <u>7.07</u>	10.00 = <u>10.02</u>	7.0 = <u>7.00</u>		<u>6.94</u>
PH Recal (if needed): 4.00 = <u>NA</u>	7.00 = <u>NA</u>	10.00 = <u>NA</u>	7.0 = <u>NA</u>	<i>post recal check</i>	
CONDUCTIVITY: <u>1413</u>	= <u>1616.6</u>		= <u>1415.9</u>		
ORP (mV) <u>233.8</u>	= <u>237.9</u>				

Calibration Date: 08/09/23 1235 Midday recal

RDO: 100% sat. = <u>102.79</u>				<i>Midday pH check</i>
PH: 4.00 = <u>4.00</u>	7.00 = <u>6.97</u>	10.00 = <u>9.91</u>	7.0 = <u>6.98</u>	
PH Recal (if needed): 4.00 = <u>NA</u>	7.00 = <u>NA</u>	10.00 = <u>NA</u>	7.0 = <u>6.98</u>	<i>post-recal check End of day</i>
CONDUCTIVITY: <u>1413</u>	= <u>1630.7</u>		= <u>1493.4</u>	<u>1610</u>
ORP (mV) <u>221.7</u>	= <u>220.9</u>			

Calibration Date: 08/10/23 0945

RDO: 100% sat. = <u>96.44</u>				<i>Midday pH check</i>
PH: 4.00 = <u>4.06</u>	7.00 = <u>7.03</u>	10.00 = <u>10.07</u>	7.0 = <u>7.00</u>	
PH Recal (if needed): 4.00 = <u>NA</u>	7.00 = <u>NA</u>	10.00 = <u>NA</u>	7.0 = <u>6.96</u>	<i>post-recal-check</i>
CONDUCTIVITY: <u>1413</u>	= <u>1532.6</u>		= <u>1395.5</u>	<u>1500</u>
ORP (mV) <u>229.5</u>	= <u>231.0</u>			

Calibration Date: 8/11/23 0730

RDO: 100% sat. = <u>99.01</u>				<i>Midday pH check</i>
PH: 4.00 = <u>4.05</u>	7.00 = <u>7.04</u>	10.00 = <u>9.93</u>	7.0 = <u>6.99</u>	
PH Recal (if needed): 4.00 = <u>NA</u>	7.00 = <u>NA</u>	10.00 = <u>NA</u>	7.0 = <u>NA</u>	<i>post recal check</i>
CONDUCTIVITY: <u>1413</u>	= <u>1466.4</u>			
ORP (mV) <u>224.2</u>	= <u>230.2</u>			



Daily Instrument Calibration Log

SITE: Plant McIntosh Wansley LF
 TECHNICIAN: A Schriener

INSTRUMENT S/N: 21030D000600
 INSTRUMENT TYPE: Hach 2100Q
 CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: Fresh DI water
10 NTU - LOT # A2264 EXP. DATE: 01/24
20 NTU - LOT # A2231 EXP. DATE: 12/23

Calibration Date: 08/08/23 1210 End of day 1615

Calibration Solution	Instrument Reading	
0.0	0.70	NTU
10.0	10.3	NTU - 10.6
20.0	33.5	NTU

Calibration Date: 08/09/23 0810

Calibration Solution	Instrument Reading	
0.0	0.37	NTU
10.0	10.2	NTU - Midday: 10.7 check
20.0	17.9	NTU

Calibration Date: 08/09/23 1235

Calibration Solution	Instrument Reading	
0.0	6.39	NTU
10.0	10.4	NTU - End of day check: 8892r
20.0	20.2	NTU

1610 = 9.89

Calibration Date: 08/10/23 0945

Calibration Solution	Instrument Reading	
0.0	0.47	NTU
10.0	9.30	NTU - End of day 1500 = 10.1
20.0	22.8	NTU

Calibration Date: 8/11/23 0730

Calibration Solution	Instrument Reading	
0.0	0.37	NTU
10.0	9.61	NTU
20.0	20.2	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: Plant Wansley LF
TECHNICIAN: A Schmittner

INSTRUMENT S/N: 15030C039370
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # Fresh DI EXP. DATE: NA
10 NTU - LOT # A2264 EXP. DATE: 1/24
20 NTU - LOT # A2231 EXP. DATE: 12/23

Calibration Date: 8/14 Time: 0850

Calibration Solution	Instrument Reading	
0.0	<u>0.63</u>	NTU
10.0	<u>10.2</u>	NTU
20.0	<u>20.6</u>	NTU

Time: 1205/1650
Midday Spot Check
10.0 = 9.86 NTU
10.0 = 10.2 NTU

Midday Calibration Time: 1210

Cal Solution	Reading	
0.0	<u>0.58</u>	NTU
10.0	<u>9.84</u>	NTU
20.0	<u>20.2</u>	NTU

Calibration Date: 08/15 Time: 0850

Calibration Solution	Instrument Reading	
0.0	0.91 <u>0.52</u>	NTU
10.0	<u>9.19</u>	NTU
20.0	<u>23.3</u>	NTU

Time: 1225/1630
Midday Spot Check
10.0 = 9.70 NTU
10.0 = ~~10.1~~ 9.98 NTU

Midday Calibration Time: 1225

Cal Solution	Reading	
0.0	<u>0.51</u>	NTU
10.0	<u>10.1</u>	NTU
20.0	<u>20.5</u>	NTU

Calibration Date: 08/16 Time: 0815

Calibration Solution	Instrument Reading	
0.0	<u>0.63</u>	NTU
10.0	<u>10.5</u>	NTU
20.0	<u>20.5</u>	NTU

Time: 1410/
Midday Spot Check
10.0 = 9.75 NTU
10.0 = 9.89 NTU

Midday Calibration Time: 1410

Cal Solution	Reading	
0.0	<u>0.52</u>	NTU
10.0	<u>9.54</u>	NTU
20.0	<u>20.9</u>	NTU

Calibration Date: 08/17 Time: 0840

Calibration Solution	Instrument Reading	
0.0	<u>0.15</u>	NTU
10.0	<u>10.2</u>	NTU
20.0	<u>19.7</u>	NTU

Time: 1230
Midday Spot Check
10.0 = 10.1 NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: 08/18 Time: 0900

Calibration Solution	Instrument Reading	
0.0	<u>0.57</u>	NTU
10.0	<u>9.88</u>	NTU
20.0	<u>20.1</u>	NTU

Time:
Midday Spot Check
10.0 = NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:
Midday Spot Check
10.0 = NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:
Midday Spot Check
10.0 = NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU



ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: Plant Wansley LF

TECHNICIAN: A. Schmitter

WATER LEVEL: Solinst

WATER LEVEL S/N: 377060

INSTRUMENT S/N: 728623

INSTRUMENT TYPE: AquaTroll

CAL. SOLUTION/S: ID: pH 4 LOT #: 26H670 EXP. DATE: 8/24

Sensor drift check ID: pH 7 LOT #: 26C169 EXP. DATE: 3/24

pH must be less than .10 ID: pH 10 LOT #: 266018 EXP. DATE: 7/24

(6.90-7.10 range) ID: Conductivity LOT #: 261642 EXP. DATE: 9/23

Conductivity must be within 0.5% ID: ORP LOT #: 21390144 EXP. DATE: 11/23
(1342-1484 range)

Calibration

Date: 8/14 Time: 0850

RDO: 100% sat. = 111.07 Recal 100% sat. =

PH: 4.00 = 4.04 7.00 = 7.03 10.00 = 9.98

CONDUCTIVITY: 1413 = 1399.8

~~CONDUCTIVITY~~ Recal: 1413 =

ORP (mV) 240 228 = 230.0

~~ORP~~ Recal (mV) 240 =

Drift Check

Date: 8/14 Time: 1430

pH 4.00 = 3.90 SC 1413 = 1462.7

Calibration

Date: 08/14 Time: 1430

RDO: 100% sat. = 92.54 Recal 100% sat. =

PH: 4.00 = 3.73 7.00 = 6.89 10.00 = 9.82

CONDUCTIVITY: 1413 = 1510.4

~~CONDUCTIVITY~~ Recal: 1413 =

ORP (mV) 240 228 = 229.7

~~ORP~~ Recal (mV) 240 =

Drift Check

Date: 8/14 Time: 1650

pH 4.00 = 4.12 SC 1413 = 1416.6



ATLANTIC COAST
CONSULTING, INC.

Calibration

Date: 8/15 Time: 0840

RDO: 100% sat. = 100.68 ~~Recal 100% sat. =~~

PH: 4.00 = 4.14 7.00 = 7.10 10.00 = 10.10

CONDUCTIVITY: 1413 = 1435.9

~~CONDUCTIVITY Recal: 1413 =~~

ORP (mV) 240 228 = 227.8

~~ORP Recal (mV) 240 =~~

Drift Check

Date: 8/15 Time: 1235

pH 4.00 = 4.01 SC 1413 = 1474.6

Calibration

Date: 8/15 Time: 1240

RDO: 100% sat. = 99.83 ~~Recal 100% sat. =~~

PH: 4.00 = 4.03 7.00 = 6.99 10.00 = 9.89

CONDUCTIVITY: 1413 = 1500

~~CONDUCTIVITY Recal: 1413 =~~

ORP (mV) 240 228 = ~~1500~~ 213.2

~~ORP Recal (mV) 240 =~~

Drift Check

Date: 8/15 Time: 1630

pH 4.00 = 4.01 SC 1413 = 1407.7

Calibration

Date: 8/16 Time: 0815

RDO: 100% sat. = 99.06 ~~Recal 100% sat. =~~

PH: 4.00 = 4.05 7.00 = 7.15 10.00 = 9.98

CONDUCTIVITY: 1413 = 1455.1

~~CONDUCTIVITY Recal: 1413 =~~

ORP (mV) 240 = 240.9

~~ORP Recal (mV) 240 =~~

Drift Check

Date: 8/16 Time: 1410

pH 4.00 = 3.95 SC 1413 = 1386.6

Calibration

Date: 8/16 Time: 1420

RDO: 100% sat. = 101.98 ~~Recal 100% sat. =~~

PH: 4.00 = 4.01 7.00 = 6.92 10.00 = 9.86

CONDUCTIVITY: 1413 = 1442.0

~~CONDUCTIVITY Recal: 1413 =~~

ORP (mV) 240 228 = 211.7

~~ORP Recal (mV) 240 =~~

Drift Check

Date: 8/16 Time: 1630

pH 4.00 = 3.95 SC 1413 = 1410.7



ATLANTIC COAST
CONSULTING, INC.

Calibration

Date: 08/17 Time: 0840

RDO: 100% sat. = 98.03 Recal 100% sat. =

PH: 4.00 = 4.05 7.00 = 7.07 10.00 = 10.12

CONDUCTIVITY: 1413 = 1461.4

CONDUCTIVITY Recal: 1413 =

ORP (mV) 240 = 238.1

ORP Recal (mV) 240 =

Drift Check

Date: 08/17 Time: 1230

pH 4.00 = 4.01 SC 1413 = 1447.3

Calibration

Date: _____ Time: _____

RDO: 100% sat. = _____ Recal 100% sat. = _____

PH: 4.00 = _____ 7.00 = _____ 10.00 = _____

CONDUCTIVITY: 1413 = _____

CONDUCTIVITY Recal: 1413 = _____

ORP (mV) 240 = _____

ORP Recal (mV) 240 = _____

Drift Check

Date: _____ Time: _____

pH 4.00 = _____ SC 1413 = _____

Calibration

Date: _____ Time: _____

RDO: 100% sat. = _____ Recal 100% sat. = _____

PH: 4.00 = _____ 7.00 = _____ 10.00 = _____

CONDUCTIVITY: 1413 = _____

CONDUCTIVITY Recal: 1413 = _____

ORP (mV) 240 = _____

ORP Recal (mV) 240 = _____

Drift Check

Date: _____ Time: _____

pH 4.00 = _____ SC 1413 = _____

Calibration

Date: _____ Time: _____

RDO: 100% sat. = _____ Recal 100% sat. = _____

PH: 4.00 = _____ 7.00 = _____ 10.00 = _____

CONDUCTIVITY: 1413 = _____

CONDUCTIVITY Recal: 1413 = _____

ORP (mV) 240 = _____

ORP Recal (mV) 240 = _____

Drift Check

Date: _____ Time: _____

pH 4.00 = _____ SC 1413 = _____



ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: Plant Wansley Landfill

TECHNICIAN: D. JOHNSON

WATER LEVEL: SOLNIST

WATER LEVEL S/N: 530984

INSTRUMENT S/N: 884189

INSTRUMENT TYPE: AquaTroll

CAL. SOLUTION/S: ID: pH 4 LOT #: 360916 EXP. DATE: 03/25

Sensor drift check pH must be less than .10 (6.90-7.10 range) Conductivity must be within 0.5% (1342-1484 range)	ID: pH 7	LOT #: <u>261304</u>	EXP. DATE: <u>09/24</u>
	ID: pH 10	LOT #: <u>266018</u>	EXP. DATE: <u>07/24</u>
	ID: Conductivity	LOT #: <u>360350</u>	EXP. DATE: <u>04/24</u>
	ID: ORP	LOT #: <u>262022</u>	EXP. DATE: <u>09/23</u>

Calibration

Date: 8/14/23 Time: 0850

RDO: 100% sat. = 101.63 Recal 100% sat. = -

PH: 4.00 = 3.88 7.00 = 7.05 10.00 = 9.98

CONDUCTIVITY: 1413 = 1270

CONDUCTIVITY Recal: 1413 = 1527

ORP (mV) 240 = 228.3

ORP Recal (mV) 240 = 218.1

Drift Check

Date: 8/14/23 Time: 1205

pH 4.00 = 4.08 SC 1413 = 1249

Calibration

Date: 8/14/23 Time: 1212

RDO: 100% sat. = 100.60 Recal 100% sat. = -

PH: 4.00 = 3.98 7.00 = 7.07 10.00 = 9.90

CONDUCTIVITY: 1413 =

CONDUCTIVITY Recal: 1413 =

ORP (mV) 240 =

ORP Recal (mV) 240 =

Drift Check

Date: 8/14/23 Time: 1105

pH 4.00 = 4.10 SC 1413 = 1322



ATLANTIC COAST CONSULTING, INC.

Calibration

Date: 8/15/23 Time: 0830

Recal @ 1320

RDO: 100% sat. = 97.64 Recal 100% sat. = 99.79

PH: 4.00 = 4.15 7.00 = 6.89 10.00 = 10.03

CONDUCTIVITY: 1413 = 1416.9

CONDUCTIVITY Recal: 1413 = 1482

ORP (mV) 240 = 231.8

ORP Recal (mV) 240 = 207.9

PH4 = 4.02
PH7 = 6.97
PH10 = 9.93

Drift Check

Date: 8/15/23 Time: 1320

pH 4.00 = 4.04 SC 1413 = 1404

8/15/23 1630

Calibration

Date: 8/15/23 Time: 1630

RDO: 100% sat. = Recal 100% sat. =

PH: 4.00 = 7.00 = 10.00 =

CONDUCTIVITY: 1413 =

CONDUCTIVITY Recal: 1413 =

ORP (mV) 240 =

ORP Recal (mV) 240 =

→ PH4 = 4.03

SC1413 = 1466

Drift Check

Date: 8/16/23 Time: 1246

pH 4.00 = 4.00 SC 1413 = 1419.0

Calibration

Date: 8/16/23 Time: 0830

RDO: 100% sat. = 102.78 Recal 100% sat. = 100

PH: 4.00 = 4.12 7.00 = 6.97 10.00 = 9.98

CONDUCTIVITY: 1413 = 1409

CONDUCTIVITY Recal: 1413 = ~~1418~~ 1521

ORP (mV) 240 = 239.4

ORP Recal (mV) 240 = 223.8

PH10 = 10.00
PH7 = 7.07
PH4 = 4.10

Drift Check

Date: 8/16/23 Time: 1630

pH 4.00 = 1468 ↔ SC 1413 = 3.98

Calibration

Date: 8/17/23 Time: 0817

RDO: 100% sat. = 98.27 Recal 100% sat. =

PH: 4.00 = 3.97 7.00 = 6.97 10.00 = 10.08

CONDUCTIVITY: 1413 = 1409

CONDUCTIVITY Recal: 1413 =

ORP (mV) 240 = 237.7

ORP Recal (mV) 240 =

Drift Check

Date: 8/17/23 Time: 1300

pH 4.00 = 3.99 SC 1413 = 1410



D. Johnson
Plant Wansley

Daily Instrument Calibration Log

Calibration Date: 8/14/23 Time: 0850

Calibration Solution	Instrument Reading	
0.0	0.23	NTU
10.0	9.18	NTU
20.0	19.8	NTU

Time: 1205

Midday Spot Check	
10.0 =	10.3 NTU

Midday Calibration Time: 1207

Cal Solution	Reading	
0.0	0.23	NTU
10.0	10.3	NTU
20.0	19.2	NTU

Calibration Date: 8/14/23 Time: 1650

Calibration Solution	Instrument Reading	
0.0	0.28	NTU
10.0	10.2	NTU
20.0	19.8	NTU

Time: 1317

Midday Spot Check	
10.0 =	9.79 NTU

Midday Calibration Time: 1318

Cal Solution	Reading	
0.0		NTU
10.0	9.79	NTU
20.0		NTU

Calibration Date: 8/15/23 Time: 0827

Calibration Solution	Instrument Reading	
0.0	0.24	NTU
10.0	10.2	NTU
20.0	20.9	NTU

Time: 1317

Midday Spot Check	
10.0 =	9.79 NTU

Midday Calibration Time: 1318

Cal Solution	Reading	
0.0	0.17	NTU
10.0	9.79	NTU
20.0	20.8	NTU

Calibration Date: 8/15/23 Time: 1625

Calibration Solution	Instrument Reading	
0.0	0.20	NTU
10.0	9.57	NTU
20.0	20.8	NTU

Time:

Midday Spot Check	
10.0 =	NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: 8/16/23 Time: 0825

Calibration Solution	Instrument Reading	
0.0	0.19	NTU
10.0	10.9	NTU
20.0	19.7	NTU

Time: 1244

Midday Spot Check	
10.0 =	9.89 NTU

Midday Calibration Time: 1245

Cal Solution	Reading	
0.0	0.20	NTU
10.0	9.89	NTU
20.0	20.2	NTU

Calibration Date: 8/16/23 Time: 1627

Calibration Solution	Instrument Reading	
0.0	0.19	NTU
10.0	10.6	NTU
20.0	19.8	NTU

Time:

Midday Spot Check	
10.0 =	NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: 8/17/23 Time: 0820

Calibration Solution	Instrument Reading	
0.0	0.20	NTU
10.0	9.81	NTU
20.0	20.7	NTU

Time: 1302

Midday Spot Check	
10.0 =	10.0 NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Hach 2100Q

SN: 22090D000 344

Cal Sol

10 NTU - Lot # A2264

Exp date - 01/24

20 NTU - Lot # A2231

Exp date - 12/24



ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: Plant Wansley
 TECHNICIAN: H. Auld
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 532172
 INSTRUMENT S/N: 714293/989619
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS: ID: pH 4 ~~24000044~~ LOT #: ~~24000044~~ EXP. DATE: 05/24

Sensor drift check pH must be less than .10 (6.90-7.10 range) Conductivity must be within 0.5% (1342-1484 range)	ID: pH 7	LOT #: 22110130	EXP. DATE: 04/24
	ID: pH 10	LOT #: 22290139	EXP. DATE: 04/24
	ID: Conductivity	LOT #: 251642	EXP. DATE: 09/23
	ID: ORP	LOT #: 3GD400	EXP. DATE: 01/24
	Cond. Auto Cal	24000044	05/2024

Calibration Date: 8/14/23 Time: 1200
 RDO: 100% sat. = 93.70 Recal 100% sat. = _____
 PH: 4.00 = 4.17 7.00 = 7.31 10.00 = 9.04
 CONDUCTIVITY: 1413 = 1466
 CONDUCTIVITY Recal: 1413 = _____
 ORP (mV) 240 = 236
 ORP Recal (mV) 240 = _____

Drift Check Date: _____ Time: _____ No check, No well
 pH 4.00 = _____ SC 1413 = sampled.

Calibration Date: 8/15/23 Time: 0815
 RDO: 100% sat. = 98.1% Recal 100% sat. = 102.9
 PH: 4.00 = 4.06, 4.09 7.00 = 6.78, 7.02 10.00 = 10.02
 CONDUCTIVITY: 1413 = 1578 9.99
 CONDUCTIVITY Recal: 1413 = 1462
 ORP (mV) 240 = 240
 ORP Recal (mV) 240 = 226

Drift Check Date: 8/15/23 Time: 1745
 pH 4.00 = 4.06 SC 1413 = 1399



ATLANTIC COAST
CONSULTING, INC.

Calibration

Date: 8/16/23 Time: 0830

RDO: 100% sat. = 96.3 Recal 100% sat. =

PH: 4.00 = 7.98 7.00 = 7.21 10.00 = 10.02

CONDUCTIVITY: 1413 4490 = 4049

CONDUCTIVITY Recal: 1413 =

ORP (mV) 240 = 230

ORP Recal (mV) 240 =

*No Recal/Drift
half day*

Drift Check

Date: _____ Time: _____

pH 4.00 = SC 1413 =

Calibration

Date: _____ Time: _____

RDO: 100% sat. = Recal 100% sat. =

PH: 4.00 = 7.00 = 10.00 =

CONDUCTIVITY: 1413 =

CONDUCTIVITY Recal: 1413 =

ORP (mV) 240 =

ORP Recal (mV) 240 =

Drift Check

Date: _____ Time: _____

pH 4.00 = SC 1413 =

Calibration

Date: _____ Time: _____

RDO: 100% sat. = Recal 100% sat. =

PH: 4.00 = 7.00 = 10.00 =

CONDUCTIVITY: 1413 =

CONDUCTIVITY Recal: 1413 =

ORP (mV) 240 =

ORP Recal (mV) 240 =

Drift Check

Date: _____ Time: _____

pH 4.00 = SC 1413 =

Calibration

Date: _____ Time: _____

RDO: 100% sat. = Recal 100% sat. =

PH: 4.00 = 7.00 = 10.00 =

CONDUCTIVITY: 1413 =

CONDUCTIVITY Recal: 1413 =

ORP (mV) 240 =

ORP Recal (mV) 240 =

Drift Check

Date: _____ Time: _____

pH 4.00 = SC 1413 =



Hunter Auld
Wansley Ash Pond

Daily Instrument Calibration Log

Calibration Date: 8/14/23 Time: 1330

Calibration Solution	Instrument Reading	
0.0	0.3	NTU
10.0	10.4	NTU
20.0	20.8	NTU

Time:
Midday Spot Check
10.0 = NA NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: 8/15/23 Time: 0900

Calibration Solution	Instrument Reading	
0.0	0.3	NTU
10.0	10.7	NTU
20.0	20.6	NTU

Time: 1300
Midday Spot Check
10.0 = 9.8 NTU

Midday Calibration Time: 1305

Cal Solution	Reading	
0.0	0.3	NTU
10.0	9.6	NTU
20.0	20.1	NTU

Calibration Date: 8/16/23 Time: 0900

Calibration Solution	Instrument Reading	
0.0	0.27	NTU
10.0	9.8	NTU
20.0	20.7	NTU

Time:
Midday Spot Check
10.0 = NA NTU
Half day

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:
Midday Spot Check
10.0 = NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:
Midday Spot Check
10.0 = NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:
Midday Spot Check
10.0 = NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:
Midday Spot Check
10.0 = NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

HACH 2100Q = 22080D001127

10 NTU = A3139, Exp. 8/2024

20 NTU = A3138, Exp. 8/2024

Calibration Report

Instrument Aqua TROLL 400
Serial Number 728623
Created 8/11/2023

Sensor **RDO**

Serial Number 847873
Last Calibrated 8/11/2023

Calibration Details

Slope 1.0316
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.92 mg/L
Temperature 24.08 °C
Barometric Pressure 988.85 mbar

Sensor **Conductivity**

Serial Number 728623
Last Calibrated 8/11/2023

Calibration Details

Cell Constant 0.743
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 724054
Last Calibrated 7/10/2023

Calibration Details

Zero Offset -0.17 psi
Reference Depth 0.00 ft
Reference Offset 0.00 psi

Sensor	pH/ORP
Serial Number	20790
Last Calibrated	8/11/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 154.2 mV
Temperature 24.29 °C

Calibration Point 2

pH of Buffer 7.00 pH
pH mV -3.7 mV
Temperature 24.75 °C

Calibration Point 3

pH of Buffer 10.00 pH
pH mV -172.1 mV
Temperature 24.61 °C

Slope and Offset 1

Slope -52.62 mV/pH
Offset -3.7 mV

Slope and Offset 2

Slope -56.13 mV/pH
Offset -3.7 mV

ORP

ORP Solution Zobell's
Offset 10.8 mV
Temperature 24.92 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 728623
Created 8/16/2023

Sensor **RDO**

Serial Number 847873
Last Calibrated 8/16/2023

Calibration Details

Slope 1.006301
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.81 mg/L
Temperature 20.04 °C
Barometric Pressure 989.62 mbar

Sensor **Conductivity**

Serial Number 728623
Last Calibrated 8/16/2023

Calibration Details

Cell Constant 0.636
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 724054
Last Calibrated 7/10/2023

Calibration Details

Zero Offset -0.17 psi
Reference Depth 0.00 ft
Reference Offset 0.00 psi

Sensor	pH/ORP
Serial Number	20790
Last Calibrated	8/16/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 159.3 mV
Temperature 19.98 °C

Calibration Point 2

pH of Buffer 7.02 pH
pH mV -13.0 mV
Temperature 19.99 °C

Calibration Point 3

pH of Buffer 10.05 pH
pH mV -168.6 mV
Temperature 19.98 °C

Slope and Offset 1

Slope -57.05 mV/pH
Offset -11.8 mV

Slope and Offset 2

Slope -51.36 mV/pH
Offset -11.9 mV

ORP

ORP Solution Zobell's
Offset 5.2 mV
Temperature 20.08 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 728623
Created 8/16/2023

Sensor **RDO**

Serial Number 847873
Last Calibrated 8/16/2023

Calibration Details

Slope 0.984739
Offset 0.00 mg/L

Calibration point 100%

Concentration 6.78 mg/L
Temperature 35.75 °C
Barometric Pressure 987.33 mbar

Sensor **Conductivity**

Serial Number 728623
Last Calibrated 8/16/2023

Calibration Details

Cell Constant 0.622
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 724054
Last Calibrated 7/10/2023

Calibration Details

Zero Offset -0.17 psi
Reference Depth 0.00 ft
Reference Offset 0.00 psi

Sensor	pH/ORP
Serial Number	20790
Last Calibrated	8/16/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.02 pH
pH mV 167.5 mV
Temperature 35.74 °C

Calibration Point 2

pH of Buffer 6.98 pH
pH mV -7.9 mV
Temperature 35.79 °C

Calibration Point 3

pH of Buffer 9.91 pH
pH mV -168.0 mV
Temperature 35.79 °C

Slope and Offset 1

Slope -59.23 mV/pH
Offset -9.1 mV

Slope and Offset 2

Slope -54.66 mV/pH
Offset -9.0 mV

ORP

ORP Solution Zobell's
Offset 9.1 mV
Temperature 35.37 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 728623
Created 8/17/2023

Sensor **RDO**

Serial Number 847873
Last Calibrated 8/17/2023

Calibration Details

Slope 1.004736
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.74 mg/L
Temperature 20.51 °C
Barometric Pressure 989.49 mbar

Sensor **Conductivity**

Serial Number 728623
Last Calibrated 8/17/2023

Calibration Details

Cell Constant 0.602
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 724054
Last Calibrated 7/10/2023

Calibration Details

Zero Offset -0.17 psi
Reference Depth 0.00 ft
Reference Offset 0.00 psi

Sensor	pH/ORP
Serial Number	20790
Last Calibrated	8/17/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 158.2 mV
Temperature 21.31 °C

Calibration Point 2

pH of Buffer 7.02 pH
pH mV -12.4 mV
Temperature 21.02 °C

Calibration Point 3

pH of Buffer 10.05 pH
pH mV -171.4 mV
Temperature 20.97 °C

Slope and Offset 1

Slope -56.48 mV/pH
Offset -11.3 mV

Slope and Offset 2

Slope -52.49 mV/pH
Offset -11.3 mV

ORP

ORP Solution Zobell's
Offset 4.8 mV
Temperature 21.34 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 884189
Created 8/16/2023

Sensor **RDO**

Serial Number 878531
Last Calibrated 8/16/2023

Calibration Details

Slope 1.041471
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.38 mg/L
Temperature 20.75 °C
Barometric Pressure 988.17 mbar

Sensor **Conductivity**

Serial Number 884189
Last Calibrated 8/16/2023

Calibration Details

Cell Constant 0.707
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 879249
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21633
Last Calibrated	8/16/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 132.8 mV
Temperature 21.95 °C

Calibration Point 2

pH of Buffer 7.02 pH
pH mV -11.5 mV
Temperature 22.18 °C

Calibration Point 3

pH of Buffer 10.05 pH
pH mV -188.5 mV
Temperature 21.58 °C

Slope and Offset 1

Slope -47.79 mV/pH
Offset -10.5 mV

Slope and Offset 2

Slope -58.43 mV/pH
Offset -10.3 mV

ORP

ORP Solution Zobell's
Offset 30.0 mV
Temperature 22.29 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 884189
Created 8/16/2023

Sensor **RDO**

Serial Number 878531
Last Calibrated 8/16/2023

Calibration Details

Slope 1.040266
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.34 mg/L
Temperature 27.87 °C
Barometric Pressure 987.66 mbar

Sensor **Conductivity**

Serial Number 884189
Last Calibrated 8/16/2023

Calibration Details

Cell Constant 0.682
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 879249
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21633
Last Calibrated	8/16/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 130.5 mV
Temperature 26.65 °C

Calibration Point 2

pH of Buffer 7.00 pH
pH mV -14.8 mV
Temperature 26.82 °C

Calibration Point 3

pH of Buffer 10.00 pH
pH mV -188.8 mV
Temperature 26.93 °C

Slope and Offset 1

Slope -48.44 mV/pH
Offset -14.8 mV

Slope and Offset 2

Slope -58.01 mV/pH
Offset -14.8 mV

ORP

ORP Solution Zobell's
Offset 32.7 mV
Temperature 26.98 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 884189
Created 8/17/2023

Sensor **RDO**

Serial Number 878531
Last Calibrated 8/17/2023

Calibration Details

Slope 1.058416
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.83 mg/L
Temperature 17.37 °C
Barometric Pressure 987.93 mbar

Sensor **Conductivity**

Serial Number 884189
Last Calibrated 8/17/2023

Calibration Details

Cell Constant 0.629
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 879249
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21633
Last Calibrated	8/17/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 129.4 mV
Temperature 20.56 °C

Calibration Point 2

pH of Buffer 7.02 pH
pH mV -13.0 mV
Temperature 20.57 °C

Calibration Point 3

pH of Buffer 10.05 pH
pH mV -189.7 mV
Temperature 19.74 °C

Slope and Offset 1

Slope -47.17 mV/pH
Offset -12.1 mV

Slope and Offset 2

Slope -58.31 mV/pH
Offset -11.9 mV

ORP

ORP Solution Zobell's
Offset 29.9 mV
Temperature 20.56 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 989619
Created 8/15/2023

Sensor **RDO**

Serial Number 964975
Last Calibrated 8/15/2023

Calibration Details

Slope 1.052477
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.53 mg/L
Temperature 25.65 °C
Barometric Pressure 988.70 mbar

Sensor **Conductivity**

Serial Number 989619
Last Calibrated 8/15/2023

Calibration Details

Cell Constant 0.884
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 991190
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22096
Last Calibrated	8/15/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 150.9 mV
Temperature 24.97 °C

Calibration Point 2

pH of Buffer 7.00 pH
pH mV -4.6 mV
Temperature 25.46 °C

Calibration Point 3

pH of Buffer 10.00 pH
pH mV -188.9 mV
Temperature 25.46 °C

Slope and Offset 1

Slope -51.82 mV/pH
Offset -4.6 mV

Slope and Offset 2

Slope -61.43 mV/pH
Offset -4.6 mV

ORP

ORP Solution Zobell's
Offset 12.1 mV
Temperature 25.28 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 989619
Created 8/15/2023

Sensor **RDO**

Serial Number 964975
Last Calibrated 8/15/2023

Calibration Details

Slope 1.021444
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.45 mg/L
Temperature 27.04 °C
Barometric Pressure 983.98 mbar

Sensor **Conductivity**

Serial Number 989619
Last Calibrated 8/15/2023

Calibration Details

Cell Constant 0.884
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 991190
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22096
Last Calibrated	8/15/2023

Calibration Details

Total Calibration Points	3
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Calibration Point 1

pH of Buffer	4.01 pH
pH mV	148.6 mV
Temperature	29.45 °C

Calibration Point 2

pH of Buffer	6.99 pH
pH mV	-6.0 mV
Temperature	27.79 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-189.8 mV
Temperature	27.05 °C

Slope and Offset 1

Slope	-51.9 mV/pH
Offset	-6.6 mV

Slope and Offset 2

Slope	-61.06 mV/pH
Offset	-6.6 mV

ORP

ORP Solution	Zobell's
Offset	12.9 mV
Temperature	26.82 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 989619
Created 8/16/2023

Sensor **RDO**

Serial Number 964975
Last Calibrated 8/16/2023

Calibration Details

Slope 1.058993
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.79 mg/L
Temperature 23.10 °C
Barometric Pressure 989.39 mbar

Sensor **Conductivity**

Serial Number 989619
Last Calibrated 8/16/2023

Calibration Details

Cell Constant 0.946
Reference Temperature 20.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 991190
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22096
Last Calibrated	8/16/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 146.6 mV
Temperature 21.74 °C

Calibration Point 2

pH of Buffer 7.00 pH
pH mV -19.3 mV
Temperature 22.91 °C

Calibration Point 3

pH of Buffer 10.00 pH
pH mV -188.3 mV
Temperature 23.15 °C

Slope and Offset 1

Slope -55.29 mV/pH
Offset -19.3 mV

Slope and Offset 2

Slope -56.34 mV/pH
Offset -19.3 mV

ORP

ORP Solution Zobell's
Offset 26.8 mV
Temperature 22.97 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 965658
Created 8/14/2023

Sensor **RDO**

Serial Number 964434
Last Calibrated 8/14/2023

Calibration Details

Slope 1.033423
Offset 0.00 mg/L

Calibration point 100%

Concentration 6.81 mg/L
Temperature 32.84 °C
Barometric Pressure 990.93 mbar

Sensor **Conductivity**

Serial Number 965658
Last Calibrated 8/14/2023

Calibration Details

Cell Constant 0.849
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 962246
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22007
Last Calibrated	8/14/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.01 pH
pH mV 89.7 mV
Temperature 32.06 °C

Calibration Point 2

pH of Buffer 6.99 pH
pH mV -73.2 mV
Temperature 31.05 °C

Calibration Point 3

pH of Buffer 9.95 pH
pH mV -246.2 mV
Temperature 30.62 °C

Slope and Offset 1

Slope -54.67 mV/pH
Offset -73.8 mV

Slope and Offset 2

Slope -58.43 mV/pH
Offset -73.8 mV

ORP

ORP Solution ORP Standard
Offset 99.2 mV
Temperature 31.81 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 965658
Created 8/15/2023

Sensor **RDO**

Serial Number 964434
Last Calibrated 8/15/2023

Calibration Details

Slope 1.035887
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.87 mg/L
Temperature 24.37 °C
Barometric Pressure 988.72 mbar

Sensor **Conductivity**

Serial Number 965658
Last Calibrated 8/15/2023

Calibration Details

Cell Constant 1.006
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 962246
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22007
Last Calibrated	8/15/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 79.0 mV
Temperature 24.93 °C

Calibration Point 2

pH of Buffer 7.00 pH
pH mV -78.6 mV
Temperature 25.15 °C

Calibration Point 3

pH of Buffer 10.00 pH
pH mV -248.6 mV
Temperature 25.33 °C

Slope and Offset 1

Slope -52.55 mV/pH
Offset -78.6 mV

Slope and Offset 2

Slope -56.68 mV/pH
Offset -78.6 mV

ORP

ORP Solution ORP Standard
Offset 91.7 mV
Temperature 25.46 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 965658
Created 8/15/2023

Sensor **RDO**

Serial Number 964434
Last Calibrated 8/15/2023

Calibration Details

Slope 1.054502
Offset 0.00 mg/L

Calibration point 100%

Concentration 6.62 mg/L
Temperature 32.84 °C
Barometric Pressure 984.03 mbar

Sensor **Conductivity**

Serial Number 965658
Last Calibrated 8/15/2023

Calibration Details

Cell Constant 1.028
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 962246
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22007
Last Calibrated	8/15/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.01 pH
pH mV 75.2 mV
Temperature 28.64 °C

Calibration Point 2

pH of Buffer 6.99 pH
pH mV -81.8 mV
Temperature 27.89 °C

Calibration Point 3

pH of Buffer 10.00 pH
pH mV -251.2 mV
Temperature 27.49 °C

Slope and Offset 1

Slope -52.68 mV/pH
Offset -82.4 mV

Slope and Offset 2

Slope -56.27 mV/pH
Offset -82.4 mV

ORP

ORP Solution ORP Standard
Offset 103.0 mV
Temperature 27.55 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 965658
Created 8/16/2023

Sensor **RDO**

Serial Number 964434
Last Calibrated 8/16/2023

Calibration Details

Slope 1.020246
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.96 mg/L
Temperature 18.43 °C
Barometric Pressure 989.04 mbar

Sensor **Conductivity**

Serial Number 965658
Last Calibrated 8/16/2023

Calibration Details

Cell Constant 0.968
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 962246
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22007
Last Calibrated	8/16/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 73.0 mV
Temperature 20.75 °C

Calibration Point 2

pH of Buffer 7.02 pH
pH mV -91.9 mV
Temperature 21.30 °C

Calibration Point 3

pH of Buffer 10.05 pH
pH mV -245.8 mV
Temperature 21.73 °C

Slope and Offset 1

Slope -54.63 mV/pH
Offset -90.9 mV

Slope and Offset 2

Slope -50.79 mV/pH
Offset -90.9 mV

ORP

ORP Solution ORP Standard
Offset 90.5 mV
Temperature 22.02 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 965658
Created 8/16/2023

Sensor **RDO**

Serial Number 964434
Last Calibrated 8/16/2023

Calibration Details

Slope 1.03951
Offset 0.00 mg/L

Calibration point 100%

Concentration 6.80 mg/L
Temperature 32.35 °C
Barometric Pressure 987.82 mbar

Sensor **Conductivity**

Serial Number 965658
Last Calibrated 8/16/2023

Calibration Details

Cell Constant 1.075
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 962246
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22007
Last Calibrated	8/16/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	72.8 mV
Temperature	26.64 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-94.6 mV
Temperature	25.22 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-248.8 mV
Temperature	24.46 °C

Slope and Offset 1

Slope	-55.81 mV/pH
Offset	-94.6 mV

Slope and Offset 2

Slope	-51.4 mV/pH
Offset	-94.6 mV

ORP

ORP Solution	ORP Standard
Offset	97.2 mV
Temperature	24.46 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 965658
Created 8/17/2023

Sensor **RDO**

Serial Number 964434
Last Calibrated 8/17/2023

Calibration Details

Slope 1.016135
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.80 mg/L
Temperature 19.60 °C
Barometric Pressure 988.86 mbar

Sensor **Conductivity**

Serial Number 965658
Last Calibrated 8/17/2023

Calibration Details

Cell Constant 0.98
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 962246
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22007
Last Calibrated	8/17/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 76.5 mV
Temperature 21.64 °C

Calibration Point 2

pH of Buffer 7.02 pH
pH mV -88.4 mV
Temperature 22.26 °C

Calibration Point 3

pH of Buffer 10.05 pH
pH mV -244.1 mV
Temperature 22.44 °C

Slope and Offset 1

Slope -54.59 mV/pH
Offset -87.3 mV

Slope and Offset 2

Slope -51.39 mV/pH
Offset -87.4 mV

ORP

ORP Solution ORP Standard
Offset 87.4 mV
Temperature 22.49 °C

Site Name: Plant Wansley

Field Instrumentation Calibration Form

Date: 9/26/23

Calibrated By: A Schmitter

Field Conditions: Cloudy 70s

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Solinst	377060
Turbidity Meter	Hach 2100A	220D000803

Aquatroll 714293

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	266018	7/24	Pine
pH (SU)	4.00	360916	03/25	Pine
pH (SU)	7.00	3601214	4/25	Pine
pH (SU)	10.00	26H903	8/24	Pine
D.O. (%)	N/A	NA	Fresh DI	DI Water
ORP (mV)	240.0	21390144	11/23	AIR

Calibration					
Time Start	Time Finish				
<u>1010</u>	<u>1030</u>				
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1391.2	22.08	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.48	± 0.1	GWMP
pH (SU)	7.00	6.99	21.65	± 0.1	GWMP
pH (SU)	10.00	9.93	21.45	± 0.1	GWMP
D.O. (%)	N/A	99.21	21.73	± 10%	NA
ORP (mV)	240.0 228	213.9	22.57	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.62		
	10	10.3		
	20	19.7		
	100	99.5		

Calibration Check					
Time Start	Time Finish				
<u>1350</u>	<u>1410</u>				
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1409.7	23.64	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	23.71	± 0.1	GWMP
pH (SU)	7.00	7.01	23.94	± 0.1	GWMP
pH (SU)	10.00	10.02	23.42	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.57		
	10	9.65		
	20	20.1		
	100	100.		

Notes:

HACH Standards
 0 = Fresh DI water
 10 = A3139 8/24
 20 = A3144 9/24
 100 = A3142 8/24

Calibration Report

Instrument Aqua TROLL 400
Serial Number 714293
Created 9/26/2023

Sensor **RDO**

Serial Number 879662
Last Calibrated 9/26/2023

Calibration Details

Slope 1.047949
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.23 mg/L
Temperature 21.73 °C
Barometric Pressure 995.53 mbar

Sensor **Conductivity**

Serial Number 714293
Last Calibrated 9/26/2023

Calibration Details

Cell Constant 0.839
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 712533
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21433
Last Calibrated	9/26/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 127.1 mV
Temperature 21.48 °C

Calibration Point 2

pH of Buffer 7.02 pH
pH mV 17.8 mV
Temperature 21.65 °C

Calibration Point 3

pH of Buffer 10.05 pH
pH mV -100.7 mV
Temperature 21.45 °C

Slope and Offset 1

Slope -36.22 mV/pH
Offset 18.5 mV

Slope and Offset 2

Slope -39.09 mV/pH
Offset 18.5 mV

ORP

ORP Solution Zobell's
Offset 67.8 mV
Temperature 22.31 °C

Field Instrumentation Calibration Form



Site Name: Plant Wausley

Date: 11/07/23

Calibrated By: J. Bradford

Field Conditions: Sunny

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	AquaTron	714302
Turbidity Meter	HACH 2100 Q	11090 C012353

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	—
pH (SU)	4.00	36C916	3/29	Pine
pH (SU)	7.00	36D1214	4/25	Pine
pH (SU)	10.00	261903	08/24	Pine
Specific Conductance (µS/cm)	1,413	3661066	7/24	Pine
ORP (mV)	240.0	366038	4/24	Pine

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	PI H20	N/A	HACH
	10	A3139	08/24	HACH
	20	A3138	08/24	HACH
	100	A3139	08/24	HACH

Calibration					
Time Start:	<u>6821</u>	Time Finish:	<u>6833</u>		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	<u>98.1</u>	<u>6.34</u>	± 10%	EPA 2023
pH (SU)	4.00	<u>4.00</u>	<u>6.45</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.06</u>	<u>6.63</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.14</u>	<u>6.44</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	<u>1284</u> 1,413	<u>1278</u>	<u>6.49</u>	± 10% of standard	NA
ORP (mV)	<u>253</u> 240.0	<u>253</u>	<u>6.35</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.19</u>	± 10% of standard	EPA 2023
	10	<u>10.1</u>		
	20	<u>20.0</u>		
	100	<u>99</u>		

Calibration Check					
Time Start	<u>1447</u>	Time Finish	<u>1459</u>		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	<u>4.07</u>	<u>13.92</u>	± 0.1	GWMP
pH (SU)	7.00	<u>6.97</u>	<u>14.07</u>	± 0.1	GWMP
pH (SU)	10.00	<u>9.95</u>	<u>14.11</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	<u>1284</u> 1,413	<u>1152</u>	<u>13.72</u>	± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.21</u>	± 10% of standard	EPA 2023
	10	<u>9.97</u>		
	20	<u>20.2</u>		
	100	<u>101</u>		

Notes:

Calibration Report

Instrument Aqua TROLL 400
Serial Number 714302
Created 11/7/2023

Sensor **RDO**

Serial Number 879679
Last Calibrated 11/7/2023

Calibration Details

Slope 0.9713696
Offset 0.00 mg/L

Calibration point 100%

Concentration 12.31 mg/L
Temperature 6.34 °C
Barometric Pressure 982.06 mbar

Sensor **Conductivity**

Serial Number 714302
Last Calibrated 11/7/2023

Calibration Details

Cell Constant 0.668
Reference Temperature 20.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 712532
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21475
Last Calibrated	11/7/2023

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 18.2 mV
Temperature 6.45 °C

Calibration Point 2

pH of Buffer 7.06 pH
pH mV -156.9 mV
Temperature 6.63 °C

Calibration Point 3

pH of Buffer 10.14 pH
pH mV -289.9 mV
Temperature 6.44 °C

Slope and Offset 1

Slope -57.23 mV/pH
Offset -153.5 mV

Slope and Offset 2

Slope -43.17 mV/pH
Offset -154.3 mV

ORP

ORP Solution Zobell's
Offset 152.0 mV
Temperature 6.39 °C

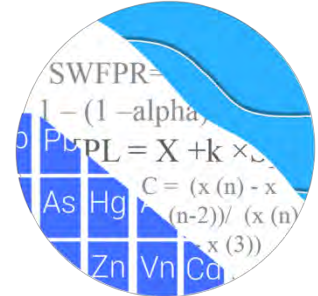
APPENDIX D

Statistical Analysis Reports

GROUNDWATER STATS CONSULTING

August 31, 2023

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Wansley Ash Pond
February 2023 Statistical Analysis

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2023 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
- **Assessment wells:** WGWC-26D and WGWC-27

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 maximum of 8 times and for other Appendix IV parameters a maximum of 6 times. Prediction limits were used to evaluate Appendix III constituents when a minimum of 8 samples is available; and confidence intervals will be constructed for Appendix IV parameters when a minimum of 4 samples is available. Assessment wells WGWC-26D and WGWC-27 were first sampled in October 2022 and data from these wells are plotted on time series and box plots and will be evaluated for Appendix IV constituents using confidence intervals when the minimum 4 samples are available.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager 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 Coal Combustion Residuals (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, box plots are 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 well/constituent pairs with 100% non-detects follows this letter. Data from these wells 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.

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. Non-detects are handled as follows:

- 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, 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 – February 2023

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

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2023 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present. 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 most recent reporting limit in upgradient well data of 0.1 mg/L is substituted for all non-detects in the construction of interwell prediction 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 (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; 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, WGWC-16, WGWC-20, WGWC-21, WGWC-22, WGWC-24, and WGWC-25
- Calcium: WGWC-8, WGWC-20, and WGWC-21
- Chloride: WGWC-8, WGWC-16, WGWC-20, WGWC-21, WGWC-24, and WGWC-25
- Fluoride: WGWC-9, WGWC-15, WGWC-19, WGWC-20, WGWC-21, WGWC-22, and WGWC-24
- pH: WGWC-24
- Sulfate: WGWC-8, WGWC-9, WGWC-16, WGWC-20, WGWC-21, WGWC-22, WGWC-24, and WGWC-25
- TDS: WGWC-8, WGWC-20, WGWC-21, WGWC-22, WGWC-24, and WGWC-25

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of variability in groundwater unrelated to practices at the site. A summary of the Appendix III trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

- Boron: WGWC-8, and WGWC-9
- Calcium: WGWC-8
- Chloride: WGWA-1 (upgradient) and WGWC-8
- Sulfate: WGWA-4 (upgradient), WGWC-8, WGWC-9, and WGWC-25
- TDS: WGWC-8

Decreasing trends:

- Boron: WGWC-16
- Calcium: WGWA-18 (upgradient)
- Chloride: WGWA-5 (upgradient), WGWC-16, and WGWC-24
- Fluoride: WGWA-18 (upgradient), WGWC-9, WGWC-15, and WGWC-22
- pH: WGWA-2 (upgradient)
- Sulfate: WGWC-16

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 (Maximum Contaminant Limits 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 – February 2023

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. Downgradient and assessment 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).

Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2023 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.

Groundwater Protection Standards

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). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the 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, Federal and State CCR Rules specify levels 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

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed using data through February 2023 for each of the Appendix IV constituents in each downgradient well with a minimum of 4 samples (Figure H). The Sanitas software was used to calculate the tolerance limits and the confidence intervals. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Note that the lower confidence limit resulted in a negative number for arsenic at WGWC-24 when constructed with a parametric confidence interval. Therefore, a non-

parametric confidence interval, which is bound by reported high and low measurements within a given well, were constructed for this particular case and may be found at the end of Figure H. This is a more conservative approach in that the lower confidence limit reflects the lowest reported measurement in the data set rather than a negative number.

The confidence intervals were compared to the GWPS established using the rules mentioned above. 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 and graphical results of the confidence intervals analyses follow this letter. Exceedances were noted for the following well/constituent pairs:

- Beryllium: WGWC-20 and WGWC-24
- Cobalt: WGWC-24
- Lithium: WGWC-19 and WGWC-20

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient trends, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. While no statistically significant increasing trends were identified, the following statistically significant decreasing trends were noted:

- Cobalt: WGWA-1, WGWA-2, WGWA-5, and WGWA-18 (all upgradient)

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,



Tristan Clark
Groundwater Analyst



Andrew Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 4/25/2023 10:06 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Antimony (mg/L)

WGWC-10, WGWC-13, WGWC-14A, WGWC-15, WGWC-16, WGWC-17, WGWC-24, WGWC-25, WGWC-26D

Arsenic (mg/L)

WGWC-19, WGWC-23, WGWC-25, WGWC-26D, WGWC-27

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-21, WGWC-23, WGWC-9

Chromium (mg/L)

WGWC-12, WGWC-16, WGWC-17, WGWC-19, WGWC-20, WGWC-22, WGWC-23, WGWC-24, WGWC-25, WGWC-27, WGWC-8

Lead (mg/L)

WGWC-20, WGWC-21, WGWC-25, WGWC-26D, WGWC-27

Mercury (mg/L)

WGWC-26D, WGWC-27

Molybdenum (mg/L)

WGWC-16, WGWC-23, WGWC-24, WGWC-25, WGWC-27, WGWC-8

Selenium (mg/L)

WGWC-13, WGWC-17, WGWC-21, WGWC-25, WGWC-27

Thallium (mg/L)

WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-20, WGWC-21, WGWC-23, WGWC-25, WGWC-26D, WGWC-27, WGWC-8, WGWC-9

Interwell Prediction Limit - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/20/2023, 12:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-16	0.1	n/a	2/15/2023	0.86	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-20	0.1	n/a	2/16/2023	3.5	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-21	0.1	n/a	2/16/2023	0.14	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-22	0.1	n/a	2/15/2023	0.39	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-24	0.1	n/a	2/15/2023	1.4	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-25	0.1	n/a	2/15/2023	0.89	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	2/16/2023	2.8	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	2/15/2023	0.69	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-20	58	n/a	2/16/2023	190	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-21	58	n/a	2/16/2023	68	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	2/16/2023	92	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	2/15/2023	42	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-20	6.05	n/a	2/16/2023	230	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-21	6.05	n/a	2/16/2023	51	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-24	6.05	n/a	2/15/2023	39	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-25	6.05	n/a	2/15/2023	79	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	2/16/2023	120	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	2/15/2023	0.73	Yes	191	n/a	n/a	45.55	n/a	n/a	0.00005418	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	2/16/2023	0.33	Yes	191	n/a	n/a	45.55	n/a	n/a	0.00005418	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-20	0.284	n/a	2/16/2023	1.9	Yes	191	n/a	n/a	45.55	n/a	n/a	0.00005418	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-21	0.284	n/a	2/16/2023	1.9	Yes	191	n/a	n/a	45.55	n/a	n/a	0.00005418	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-22	0.284	n/a	2/15/2023	0.31	Yes	191	n/a	n/a	45.55	n/a	n/a	0.00005418	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-24	0.284	n/a	2/15/2023	0.63	Yes	191	n/a	n/a	45.55	n/a	n/a	0.00005418	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	2/15/2023	0.85	Yes	191	n/a	n/a	45.55	n/a	n/a	0.00005418	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-24	7.96	4.96	2/15/2023	4.54	Yes	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	2/15/2023	54	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-20	21	n/a	2/16/2023	350	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-21	21	n/a	2/16/2023	340	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-22	21	n/a	2/15/2023	110	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-24	21	n/a	2/15/2023	120	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-25	21	n/a	2/15/2023	27	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	2/16/2023	250	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	2/15/2023	65	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	190	n/a	2/16/2023	960	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	190	n/a	2/16/2023	630	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-22	190	n/a	2/15/2023	210	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-24	190	n/a	2/15/2023	230	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-25	190	n/a	2/15/2023	200	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	2/16/2023	590	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2

Interwell Prediction Limit - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/20/2023, 12:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (S.U.)	WGWC-10	7.96	4.96	2/16/2023	6.39	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-11	7.96	4.96	2/16/2023	5.69	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-12	7.96	4.96	2/16/2023	6.61	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-13	7.96	4.96	2/16/2023	6.27	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-14A	7.96	4.96	2/16/2023	5.4	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-15	7.96	4.96	2/15/2023	7.72	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-16	7.96	4.96	2/15/2023	5.19	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-17	7.96	4.96	2/16/2023	6.28	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-19	7.96	4.96	2/16/2023	6.8	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-20	7.96	4.96	2/16/2023	5.17	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-21	7.96	4.96	2/16/2023	6.92	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-22	7.96	4.96	2/15/2023	5.47	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-23	7.96	4.96	2/15/2023	5.49	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-24	7.96	4.96	2/15/2023	4.54	Yes	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-25	7.96	4.96	2/15/2023	5.36	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-8	7.96	4.96	2/16/2023	5.22	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-9	7.96	4.96	2/15/2023	5.86	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-10	21	n/a	2/16/2023	1.8	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-11	21	n/a	2/16/2023	1	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-12	21	n/a	2/16/2023	2.8	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-13	21	n/a	2/16/2023	2.3	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-14A	21	n/a	2/16/2023	0.47J	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-15	21	n/a	2/15/2023	14	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	2/15/2023	54	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-17	21	n/a	2/16/2023	2.6	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-19	21	n/a	2/16/2023	3	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-20	21	n/a	2/16/2023	350	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-21	21	n/a	2/16/2023	340	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-22	21	n/a	2/15/2023	110	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-23	21	n/a	2/15/2023	5.2	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-24	21	n/a	2/15/2023	120	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-25	21	n/a	2/15/2023	27	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	2/16/2023	250	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	2/15/2023	65	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-10	190	n/a	2/16/2023	54	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-11	190	n/a	2/16/2023	33	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-12	190	n/a	2/16/2023	89	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-13	190	n/a	2/16/2023	81	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-14A	190	n/a	2/16/2023	27	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-15	190	n/a	2/15/2023	130	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	190	n/a	2/15/2023	160	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-17	190	n/a	2/16/2023	77	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-19	190	n/a	2/16/2023	100	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	190	n/a	2/16/2023	960	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	190	n/a	2/16/2023	630	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-22	190	n/a	2/15/2023	210	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-23	190	n/a	2/15/2023	71	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-24	190	n/a	2/15/2023	230	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-25	190	n/a	2/15/2023	200	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	2/16/2023	590	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-9	190	n/a	2/15/2023	160	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2

Appendix III Trend Test - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/20/2023, 12:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWC-16	-0.8386	-117	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1899	122	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.05128	99	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.364	-84	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	10.03	163	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.08017	88	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.1013	-102	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-39.71	-109	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-24	-55.24	-25	-21	Yes	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	18.08	161	81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008559	-120	-105	Yes	24	16.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02645	-116	-105	Yes	24	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-22	-0.2356	-25	-21	Yes	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1191	-184	-105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-2 (bg)	-0.03618	-111	-105	Yes	24	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.3955	108	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-77.41	-97	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-25	12.63	27	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.54	140	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.768	107	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	45.28	156	81	Yes	20	0	n/a	n/a	0.01	NP

Appendix III Trend Test - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/20/2023, 12:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWA-1 (bg)	0	-19	-81	No	20	95	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-18 (bg)	0	28	81	No	20	90	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-2 (bg)	0	-56	-81	No	20	80	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-3 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-4 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-5 (bg)	0	-18	-74	No	19	94.74	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-6 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-7 (bg)	0	-19	-81	No	20	95	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-16	-0.8386	-117	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-20	0.977	10	21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-21	-0.00553	-2	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-22	0.04328	10	21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-24	-0.5953	-18	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-25	0.2155	20	21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1899	122	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.05128	99	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-1 (bg)	0.03829	80	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.364	-84	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-2 (bg)	-0.2535	-50	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-3 (bg)	0	2	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-4 (bg)	0	-24	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-5 (bg)	-0.0273	-10	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-6 (bg)	0	3	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-7 (bg)	-0.03602	-22	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-20	42.34	8	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-21	0.7832	2	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	10.03	163	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.08017	88	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-18 (bg)	-0.05405	-59	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-2 (bg)	0.05384	80	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-3 (bg)	0	-10	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-4 (bg)	0	-56	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.1013	-102	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-6 (bg)	0	13	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-7 (bg)	0	2	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-39.71	-109	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-20	69.78	10	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-21	-5.288	-8	-21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-24	-55.24	-25	-21	Yes	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-25	1.449	11	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	18.08	161	81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-1 (bg)	0	-19	-105	No	24	75	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008559	-120	-105	Yes	24	16.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-2 (bg)	-0.01627	-97	-105	No	24	37.5	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-3 (bg)	0	-38	-105	No	24	66.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-4 (bg)	-0.00409	-69	-105	No	24	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-5 (bg)	0	25	98	No	23	86.96	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-6 (bg)	-0.003249	-73	-105	No	24	8.333	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-7 (bg)	0	-25	-105	No	24	75	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02645	-116	-105	Yes	24	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-19	-0.01348	-88	-105	No	24	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-20	0.1192	10	21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-21	0.0856	6	21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-22	-0.2356	-25	-21	Yes	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-24	-0.4448	-17	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1191	-184	-105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-1 (bg)	-0.01725	-67	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-18 (bg)	-0.1261	-78	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-2 (bg)	-0.03618	-111	-105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-3 (bg)	-0.0126	-59	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-4 (bg)	0.02032	28	105	No	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-5 (bg)	-0.01347	-24	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-6 (bg)	0.02152	55	98	No	23	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-7 (bg)	-0.03614	-72	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWC-24	0.09684	17	21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-1 (bg)	0	-13	-81	No	20	90	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-18 (bg)	-0.5911	-72	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-2 (bg)	-0.03939	-32	-81	No	20	0	n/a	n/a	0.01	NP

Appendix III Trend Test - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/20/2023, 12:45 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Sulfate as SO4 (mg/L)	WGWA-3 (bg)	-0.008795	-18	-81	No	20	5	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.3955	108	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-5 (bg)	0.006046	7	74	No	19	21.05	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-6 (bg)	-0.02505	-12	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-7 (bg)	0	-7	-81	No	20	75	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-77.41	-97	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-20	37.49	10	21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-21	36.17	7	21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-22	17.63	8	21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-24	-35.21	-15	-21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-25	12.63	27	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.54	140	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.768	107	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-1 (bg)	3.422	77	81	No	20	20	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-18 (bg)	-3.687	-37	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-2 (bg)	1.698	26	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-3 (bg)	1.454	36	81	No	20	5	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-4 (bg)	1.04	36	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-5 (bg)	1.043	14	74	No	19	10.53	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-6 (bg)	3.119	60	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-7 (bg)	1.109	19	81	No	20	15	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	176.4	10	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	46.87	7	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-22	2.578	1	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-24	-240.8	-20	-21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-25	0	2	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	45.28	156	81	Yes	20	0	n/a	n/a	0.01	NP

Upper Tolerance Limit Summary Table

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/24/2023, 11:51 AM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg.N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0022	n/a	n/a	n/a	143	97.9	n/a	0.0006523	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0014	n/a	n/a	n/a	183	81.97	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.062	n/a	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	183	93.99	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	167	100	n/a	0.0001905	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0063	n/a	n/a	n/a	183	95.08	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.013	n/a	n/a	n/a	182	46.7	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	10.4	n/a	n/a	n/a	180	0	n/a	NaN	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.284	n/a	n/a	n/a	191	45.55	n/a	NaN	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	167	88.62	n/a	0.0001905	NP Inter(NDs)
Lithium (mg/L)	n/a	0.009	n/a	n/a	n/a	173	50.29	n/a	NaN	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	151	90.73	n/a	0.0004328	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	182	91.21	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	183	95.08	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	183	92.9	n/a	NaN	NP Inter(NDs)

WANSLEY AP GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background	GWPS
Antimony, Total (mg/L)	0.006		0.0022	0.006
Arsenic, Total (mg/L)	0.01		0.0014	0.01
Barium, Total (mg/L)	2		0.062	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0063	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.013	0.013
Combined Radium, Total (pCi/L)	5		10.4	10.4
Fluoride, Total (mg/L)	4		0.28	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.009	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

Highlighted cells indicate background is higher than established limit.

Confidence Intervals - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/25/2023, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	WGWC-20	0.01188	0.007483	0.004	Yes	6	0.009683	0.001602	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-24	0.01516	0.004344	0.004	Yes	6	0.00975	0.003935	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-24	0.133	0.02803	0.013	Yes	6	0.0805	0.0382	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.05576	0.04868	0.04	Yes	23	0.05222	0.006769	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	8	0.1238	0.01685	0	None	No	0.004	NP (normality)

Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/25/2023, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-11	0.002	0.00053	0.006	No	18	0.001918	0.0003465	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	18	0.002017	0.00007071	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-19	0.002	0.00058	0.006	No	18	0.001921	0.0003347	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-20	0.002	0.00066	0.006	No	6	0.001627	0.0005949	66.67	None	No	0.0155	NP (NDs)
Antimony (mg/L)	WGWC-21	0.002	0.00053	0.006	No	6	0.001307	0.0007638	50	None	No	0.0155	NP (normality)
Antimony (mg/L)	WGWC-22	0.00116	0.0005103	0.006	No	6	0.001223	0.0006377	33.33	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-23	0.002073	0.001049	0.006	No	6	0.00175	0.0004087	33.33	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-8	0.011	0.00064	0.006	No	18	0.002424	0.002164	88.89	Kaplan-Meier	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.0043	0.0011	0.006	No	18	0.00215	0.001699	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	23	0.0008883	0.0002391	78.26	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	23	0.0009357	0.0001702	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	23	0.0009291	0.0001886	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00039	0.01	No	23	0.0007817	0.0003213	47.83	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0014	0.00095	0.01	No	23	0.001211	0.0005498	69.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.00201	0.001152	0.01	No	23	0.001581	0.0008198	4.348	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0014	0.001	0.01	No	23	0.001137	0.0003124	56.52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-17	0.001	0.00075	0.01	No	23	0.0008609	0.0002015	56.52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-20	0.0007446	0.0002254	0.01	No	6	0.0006567	0.0003151	33.33	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-21	0.0007759	0.0002521	0.01	No	6	0.000595	0.0002752	16.67	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-22	0.001	0.00029	0.01	No	6	0.0007917	0.0003272	66.67	Kaplan-Meier	No	0.0155	NP (NDs)
Arsenic (mg/L)	WGWC-24	0.0033	0.00028	0.01	No	6	0.00162	0.00125	16.67	None	No	0.0155	NP (selected)
Arsenic (mg/L)	WGWC-8	0.001007	0.0006326	0.01	No	23	0.0009835	0.0002734	47.83	Kaplan-Meier	x^2	0.01	Param.
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	23	0.0009978	0.000193	86.96	None	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.04034	0.03431	2	No	23	0.03766	0.006423	0	None	ln(x)	0.01	Param.
Barium (mg/L)	WGWC-11	0.04039	0.03296	2	No	23	0.03691	0.007495	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-12	0.01902	0.01526	2	No	23	0.0168	0.003974	0	None	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05448	0.045	2	No	23	0.04974	0.009056	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.0433	0.03029	2	No	23	0.03752	0.01356	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-15	0.02514	0.021	2	No	23	0.02307	0.003964	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.05477	0.03889	2	No	23	0.04767	0.01549	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-17	0.018	0.011	2	No	23	0.01439	0.004034	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.01	0.0012	2	No	23	0.004584	0.004188	34.78	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-20	0.01	0.00091	2	No	6	0.008485	0.003711	83.33	None	No	0.0155	NP (NDs)
Barium (mg/L)	WGWC-21	0.009115	0.004252	2	No	6	0.006683	0.00177	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-22	0.04101	0.02232	2	No	6	0.03167	0.006802	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-23	0.009861	0.005873	2	No	6	0.007867	0.001451	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-24	0.04289	0.02644	2	No	6	0.03467	0.005989	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-25	0.41	0.3066	2	No	6	0.3583	0.03764	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-8	0.01	0.0011	2	No	23	0.00494	0.004209	39.13	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.01	0.00092	2	No	23	0.005097	0.004423	43.48	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00031	0.004	No	23	0.001817	0.001056	69.57	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	23	0.002401	0.0004754	95.65	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-20	0.01188	0.007483	0.004	Yes	6	0.009683	0.001602	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-21	0.0025	0.00022	0.004	No	6	0.00212	0.0009308	83.33	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	WGWC-22	0.0006834	0.00052	0.004	No	6	0.0006017	0.00005947	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-23	0.00126	0.0007869	0.004	No	6	0.001023	0.0001721	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-24	0.01516	0.004344	0.004	Yes	6	0.00975	0.003935	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-25	0.0025	0.0002	0.004	No	6	0.0006267	0.0009185	16.67	None	No	0.0155	NP (normality)
Beryllium (mg/L)	WGWC-8	0.002166	0.001647	0.004	No	23	0.001907	0.000497	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	23	0.001212	0.001057	39.13	None	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No	21	0.002391	0.0004997	95.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.0005633	0.0002785	0.005	No	21	0.001154	0.0009904	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Cadmium (mg/L)	WGWC-20	0.0025	0.00026	0.005	No	6	0.001805	0.001081	66.67	Kaplan-Meier	No	0.0155	NP (NDs)
Cadmium (mg/L)	WGWC-22	0.0025	0.00009	0.005	No	6	0.001353	0.001258	50	None	No	0.0155	NP (normality)
Cadmium (mg/L)	WGWC-24	0.00063	0.0001467	0.005	No	6	0.0003883	0.0001759	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/25/2023, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	WGWC-25	0.0025	0.0001	0.005	No	6	0.001703	0.001234	66.67	None	No	0.0155	NP (NDs)
Cadmium (mg/L)	WGWC-8	0.0025	0.00065	0.005	No	21	0.002412	0.0004037	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-10	0.002223	0.001542	0.1	No	23	0.001883	0.0006506	13.04	None	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0017	0.1	No	23	0.001917	0.0002516	82.61	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	23	0.001974	0.00007518	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	23	0.001987	0.00006255	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	23	0.001978	0.0001043	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-21	0.002	0.0015	0.1	No	6	0.001917	0.0002041	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	23	0.002022	0.0001043	95.65	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001414	0.0007674	0.013	No	23	0.001152	0.000715	8.696	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	23	0.00158	0.0009506	39.13	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.000982	0.0004403	0.013	No	23	0.0009204	0.001025	4.348	None	ln(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.0008	0.013	No	23	0.002052	0.0008762	78.26	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-14A	0.009435	0.004799	0.013	No	23	0.007117	0.004432	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	23	0.002398	0.00049	95.65	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.005748	0.0008712	0.013	No	23	0.006188	0.006027	21.74	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-17	0.00146	0.0007439	0.013	No	23	0.001102	0.0006843	13.04	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	23	0.001277	0.001101	43.48	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-20	0.0025	0.00037	0.013	No	6	0.001805	0.001077	66.67	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	WGWC-21	0.0025	0.00032	0.013	No	6	0.0008417	0.0008493	16.67	None	No	0.0155	NP (normality)
Cobalt (mg/L)	WGWC-22	0.0025	0.00025	0.013	No	6	0.001412	0.001193	50	None	No	0.0155	NP (normality)
Cobalt (mg/L)	WGWC-23	0.0025	0.00016	0.013	No	6	0.001722	0.001206	66.67	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	WGWC-24	0.133	0.02803	0.013	Yes	6	0.0805	0.0382	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-25	0.005181	0.003719	0.013	No	6	0.00445	0.000532	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-8	0.0025	0.00066	0.013	No	23	0.001737	0.001033	43.48	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	23	0.002423	0.0003691	95.65	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4457	0.2064	10.4	No	23	0.3261	0.2288	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6043	0.2196	10.4	No	23	0.4119	0.3678	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.5629	0.2068	10.4	No	23	0.3848	0.3404	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.757	0.469	10.4	No	23	0.613	0.2754	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8308	0.5537	10.4	No	23	0.7097	0.2938	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6051	0.2991	10.4	No	23	0.4854	0.3344	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.597	0.7565	10.4	No	23	1.274	0.8774	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5286	0.16	10.4	No	23	0.3443	0.3524	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.5409	0.2084	10.4	No	23	0.3747	0.3179	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-20	1.457	0.587	10.4	No	6	1.022	0.3167	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-21	2.27	0.3891	10.4	No	6	1.329	0.6844	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-22	7.799	2.781	10.4	No	6	5.29	1.826	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-23	1.399	0.1906	10.4	No	6	0.7948	0.4399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-24	1.44	0.6443	10.4	No	6	1.02	0.3145	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-25	1.078	0.4824	10.4	No	6	0.78	0.2166	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	2.213	1.466	10.4	No	23	1.84	0.7134	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4101	0.1637	10.4	No	23	0.2869	0.2355	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-10	0.1674	0.123	4	No	24	0.1452	0.04353	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-11	0.1	0.045	4	No	24	0.07996	0.03544	54.17	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-12	0.09739	0.07226	4	No	24	0.109	0.047	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-13	0.2778	0.1992	4	No	24	0.2385	0.07692	4.167	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-14A	0.1	0.048	4	No	24	0.08133	0.02808	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-15	0.8568	0.7665	4	No	24	0.8116	0.08846	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-16	0.15	0.067	4	No	24	0.2208	0.2949	8.333	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-17	0.1266	0.08023	4	No	24	0.1034	0.04544	4.167	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-19	0.3721	0.3246	4	No	24	0.3483	0.04659	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-20	2.212	1.717	4	No	8	1.963	0.2446	0	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	WGWC-21	1.961	1.689	4	No	8	1.825	0.1282	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-22	1.4	0.31	4	No	8	0.6088	0.4094	0	None	No	0.004	NP (normality)

Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/25/2023, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	WGWC-23	0.0861	0.03397	4	No	8	0.05938	0.02524	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-24	1.151	0.4268	4	No	8	0.7888	0.3415	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-25	0.1	0.028	4	No	8	0.06763	0.03512	50	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	WGWC-8	0.3233	0.1962	4	No	24	0.2598	0.1245	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-9	1.445	1.133	4	No	24	1.289	0.306	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00023	0.015	No	21	0.000641	0.0003898	52.38	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	21	0.0008838	0.0002517	80.95	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-12	0.001	0.00033	0.015	No	21	0.0009681	0.0001462	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00045	0.015	No	21	0.0006976	0.0003047	38.1	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00031	0.015	No	21	0.0007319	0.0003609	61.9	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.015	No	21	0.0009667	0.0001528	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	21	0.0009176	0.0002602	90.48	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	21	0.00093	0.000222	90.48	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-19	0.001	0.0003	0.015	No	21	0.0009667	0.0001528	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-22	0.001	0.00022	0.015	No	6	0.0004017	0.0003009	16.67	None	No	0.0155	NP (normality)
Lead (mg/L)	WGWC-23	0.0046	0.001	0.015	No	6	0.0016	0.00147	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	WGWC-24	0.001116	0.0002609	0.015	No	6	0.0006883	0.0003112	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-8	0.001	0.00017	0.015	No	21	0.0007119	0.0003865	61.9	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	21	0.000959	0.0001877	95.24	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01296	0.006432	0.04	No	23	0.0104	0.007152	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	23	0.004357	0.001439	82.61	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.0077	0.0062	0.04	No	23	0.007465	0.004191	4.348	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-13	0.005	0.0037	0.04	No	23	0.00427	0.00121	69.57	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.04	No	23	0.004004	0.00138	60.87	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.007134	0.005301	0.04	No	23	0.006217	0.001752	8.696	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01064	0.006205	0.04	No	23	0.008796	0.00484	4.348	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-17	0.0058	0.0045	0.04	No	23	0.005909	0.004269	4.348	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-19	0.05576	0.04868	0.04	Yes	23	0.05222	0.006769	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	8	0.1238	0.01685	0	None	No	0.004	NP (normality)
Lithium (mg/L)	WGWC-21	0.0547	0.0278	0.04	No	8	0.04125	0.01269	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-22	0.011	0.0081	0.04	No	8	0.01005	0.001139	0	None	No	0.004	NP (normality)
Lithium (mg/L)	WGWC-23	0.005	0.0015	0.04	No	8	0.003775	0.001696	62.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	WGWC-24	0.008791	0.004759	0.04	No	8	0.006775	0.001902	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-25	0.004552	0.003423	0.04	No	8	0.003988	0.000533	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.017	0.013	0.04	No	23	0.01646	0.009504	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03723	0.03212	0.04	No	23	0.03467	0.004879	0	None	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.00013	0.002	No	19	0.0001779	0.000045	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No	19	0.0001891	0.00003312	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00018	0.002	No	19	0.0001831	0.00003787	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No	19	0.0001876	0.00003721	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No	19	0.0001963	0.00001606	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000093	0.002	No	19	0.0001755	0.00004884	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No	19	0.0001884	0.00003404	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No	19	0.0001934	0.00002891	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No	19	0.0001893	0.00003299	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-20	0.00033	0.0002	0.002	No	6	0.0002217	0.00005307	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	WGWC-21	0.0002	0.0002	0.002	No	6	0.0002	2.1e-12	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	WGWC-22	0.0002	0.00018	0.002	No	6	0.0001967	0.000008165	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	WGWC-23	0.00022	0.0002	0.002	No	6	0.0002033	0.000008165	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	WGWC-24	0.00026	0.0002	0.002	No	6	0.00021	0.00002449	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	WGWC-25	0.0019	0.0002	0.002	No	6	0.0004833	0.000694	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No	19	0.0001852	0.00003628	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No	19	0.0001963	0.00001606	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	23	0.01378	0.004057	91.3	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No	23	0.01382	0.003919	91.3	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/25/2023, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	WGWC-12	0.015	0.0046	0.1	No	23	0.01145	0.00615	73.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.003006	0.001529	0.1	No	23	0.00268	0.0021	13.04	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	23	0.01439	0.002919	95.65	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.005821	0.003115	0.1	No	23	0.004852	0.003318	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.004512	0.00241	0.1	No	23	0.003922	0.002443	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.1	No	23	0.005452	0.006459	30.43	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-20	0.015	0.00062	0.1	No	6	0.01023	0.007382	66.67	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	WGWC-21	0.04387	0.03113	0.1	No	6	0.0375	0.004637	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-22	0.015	0.00084	0.1	No	6	0.01264	0.005781	83.33	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	WGWC-9	0.005541	0.003362	0.1	No	23	0.004923	0.003299	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	23	0.004796	0.0009779	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	23	0.004804	0.0009404	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	23	0.004874	0.0006047	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	23	0.004796	0.00098	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	23	0.004804	0.0009383	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.009844	0.004838	0.05	No	23	0.007341	0.004786	4.348	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	23	0.004798	0.0009675	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-20	0.005	0.0014	0.05	No	6	0.0023	0.001409	16.67	None	No	0.0155	NP (normality)
Selenium (mg/L)	WGWC-22	0.007995	0.003505	0.05	No	6	0.00575	0.001634	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-23	0.002646	0.001388	0.05	No	6	0.002017	0.0004579	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-24	0.005	0.00077	0.05	No	6	0.004295	0.001727	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	WGWC-8	0.0038	0.0032	0.05	No	23	0.00369	0.001026	0	None	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-9	0.002835	0.00225	0.05	No	23	0.002543	0.0005595	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	23	0.0009602	0.0001908	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	23	0.0009635	0.0001752	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00016	0.002	No	23	0.0005987	0.0004294	52.17	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-16	0.001	0.00017	0.002	No	23	0.0005678	0.0004244	47.83	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	23	0.0009643	0.000171	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-22	0.001	0.00047	0.002	No	6	0.0009117	0.0002164	83.33	None	No	0.0155	NP (NDs)
Thallium (mg/L)	WGWC-24	0.0007372	0.0003328	0.002	No	6	0.000535	0.0001472	0	None	No	0.01	Param.

Appendix IV Trend Test - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/20/2023, 12:59 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	WGWA-1 (bg)	-0.00008357	-162	-98	Yes	23	4.348	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-18 (bg)	-0.0003188	-105	-98	Yes	23	8.696	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-2 (bg)	-0.0001095	-178	-98	Yes	23	8.696	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-5 (bg)	-0.0003904	-96	-92	Yes	22	4.545	n/a	n/a	0.01	NP

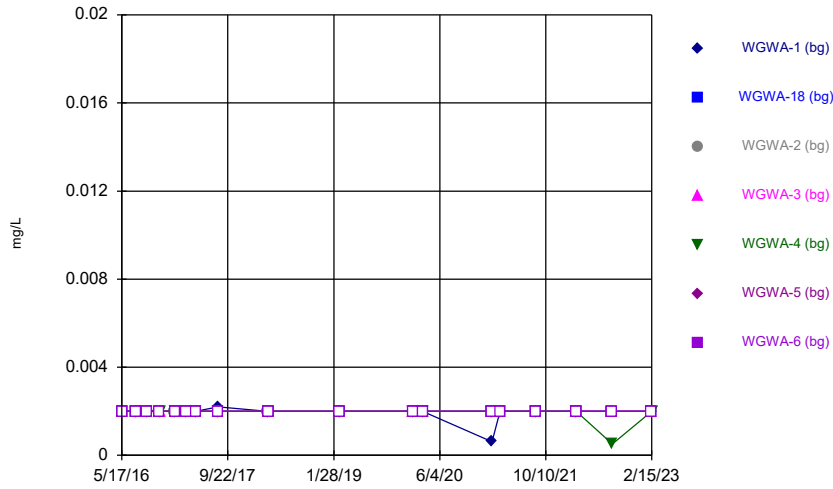
Appendix IV Trend Test - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/20/2023, 12:59 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	WGWA-1 (bg)	0	-27	-98	No	23	86.96	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-18 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-2 (bg)	0	-25	-98	No	23	86.96	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-3 (bg)	0	-23	-98	No	23	91.3	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-4 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-5 (bg)	0	-3	-92	No	22	95.45	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-6 (bg)	0	-4	-98	No	23	95.65	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-7 (bg)	0	-6	-98	No	23	95.65	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWC-20	0	0	14	No	6	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWC-24	-0.009	-10	-14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-1 (bg)	-0.00008357	-162	-98	Yes	23	4.348	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-18 (bg)	-0.0003188	-105	-98	Yes	23	8.696	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-2 (bg)	-0.0001095	-178	-98	Yes	23	8.696	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-3 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-4 (bg)	0	0	98	No	23	95.65	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-5 (bg)	-0.0003904	-96	-92	Yes	22	4.545	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-6 (bg)	0	-4	-98	No	23	82.61	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-7 (bg)	0	-23	-98	No	23	65.22	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWC-24	-0.08497	-11	-14	No	6	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-1 (bg)	-0.0001076	-69	-98	No	23	39.13	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-18 (bg)	0	6	98	No	23	86.96	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-2 (bg)	-0.00008441	-20	-98	No	23	4.348	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-3 (bg)	0	10	98	No	23	86.96	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-4 (bg)	0.00002309	13	98	No	23	4.348	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-5 (bg)	0	1	92	No	22	90.91	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-6 (bg)	0.000231	73	98	No	23	8.696	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-7 (bg)	0	6	98	No	23	95.65	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWC-19	0.001276	75	98	No	23	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWC-20	0.004002	7	21	No	8	0	n/a	n/a	0.01	NP

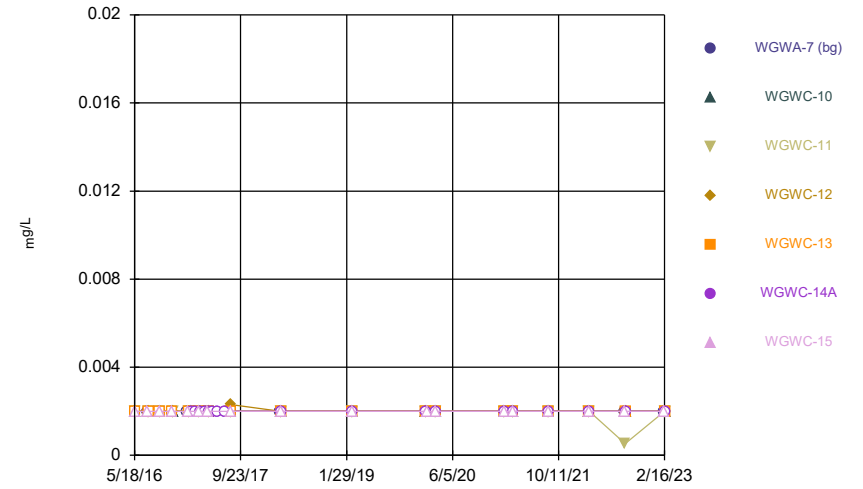
FIGURE A.

Time Series



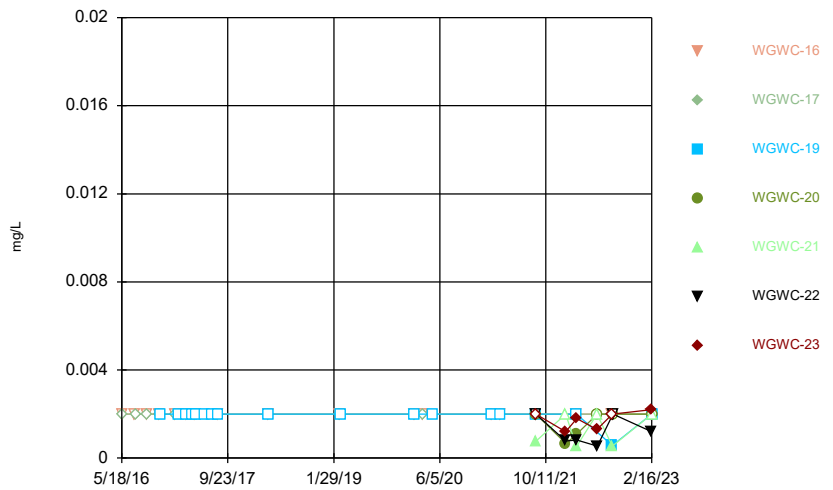
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



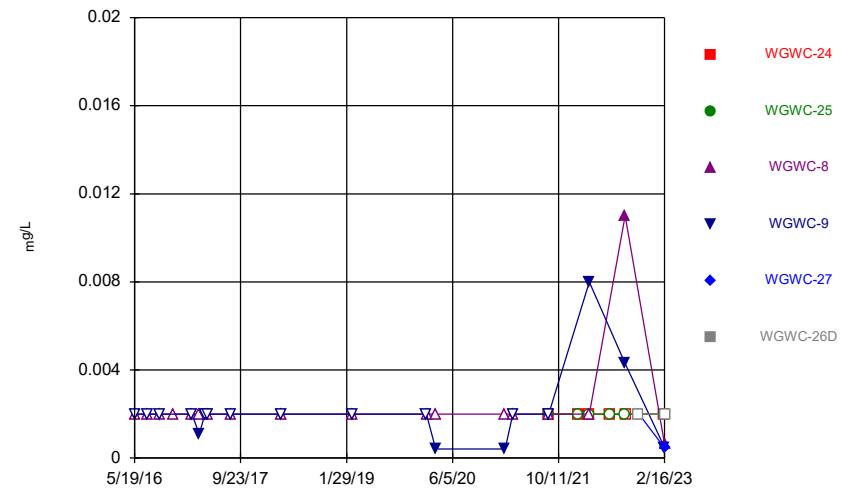
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Time Series



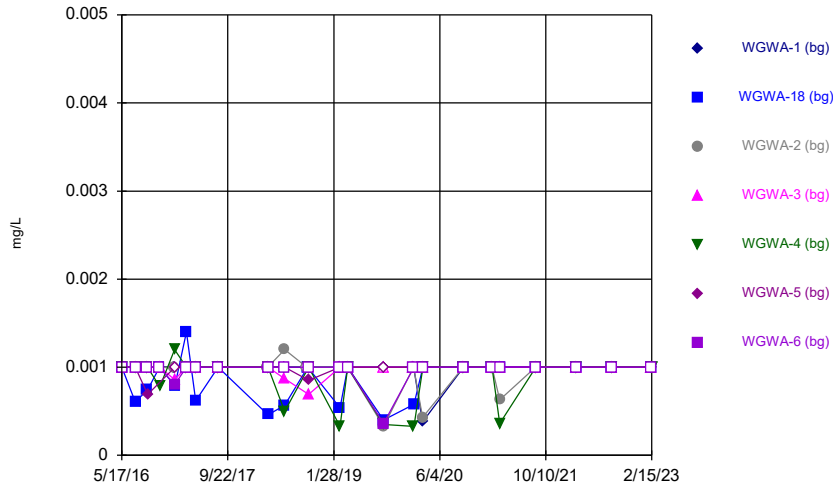
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



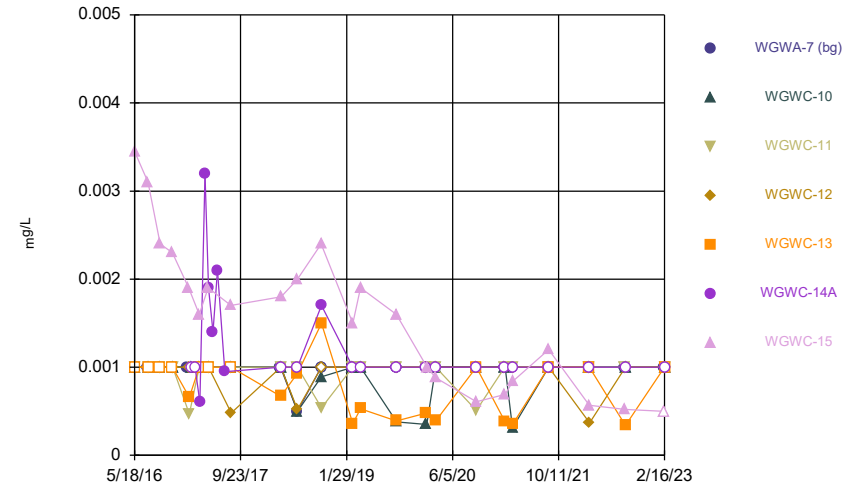
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Time Series



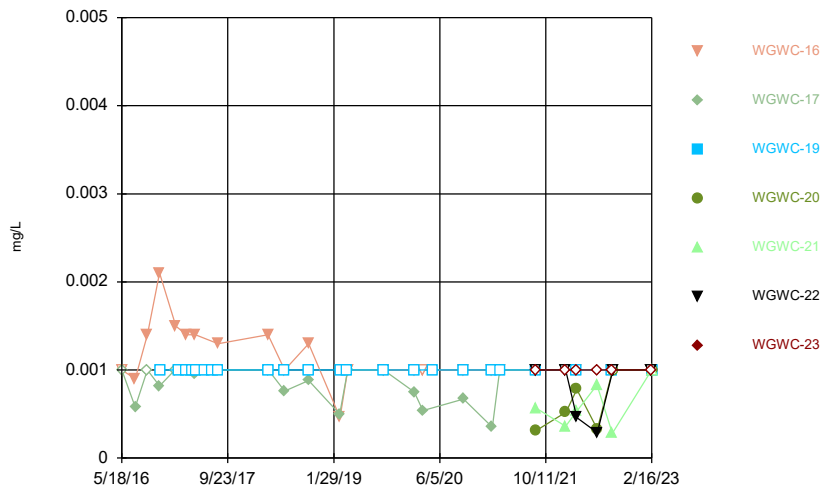
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



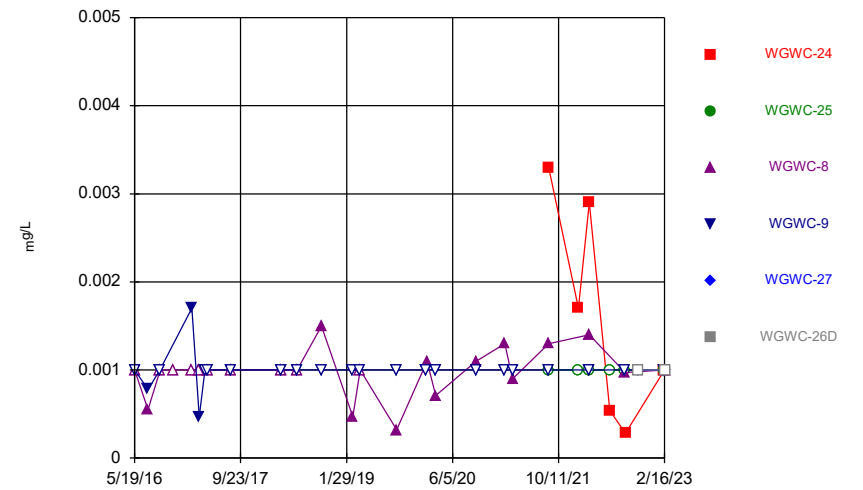
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



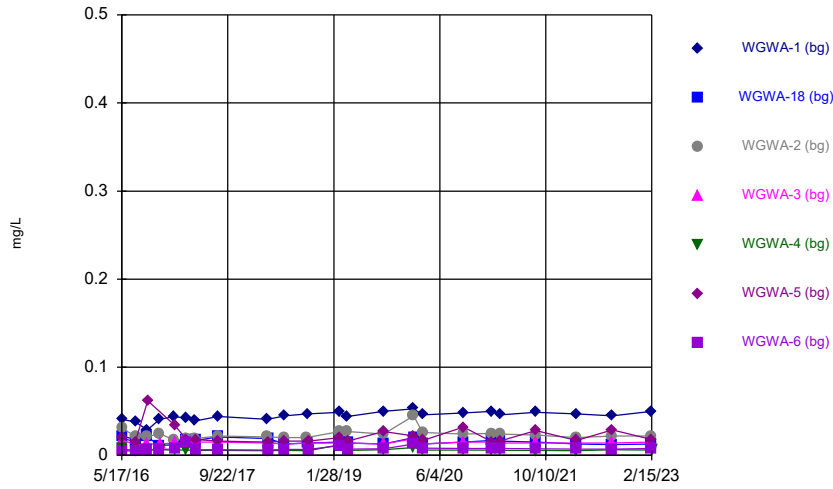
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Time Series



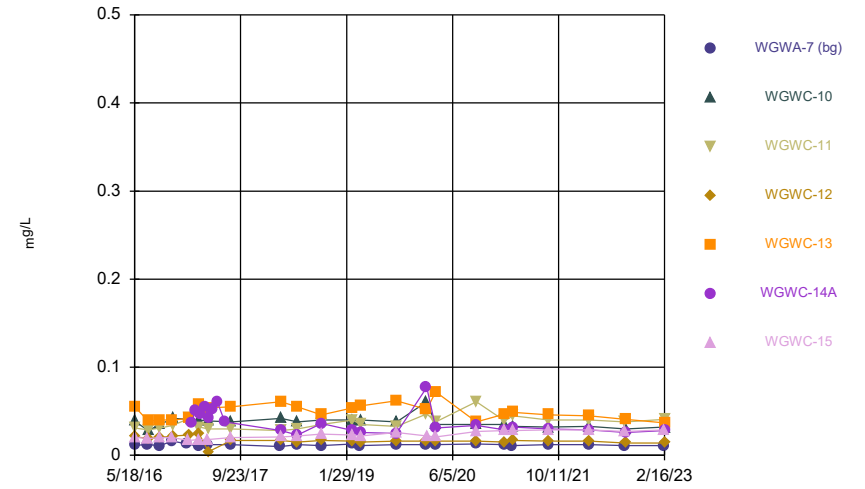
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



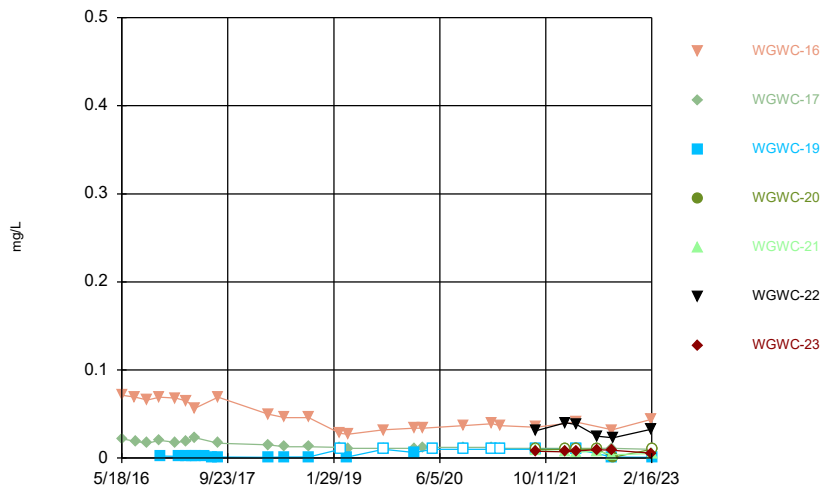
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Time Series



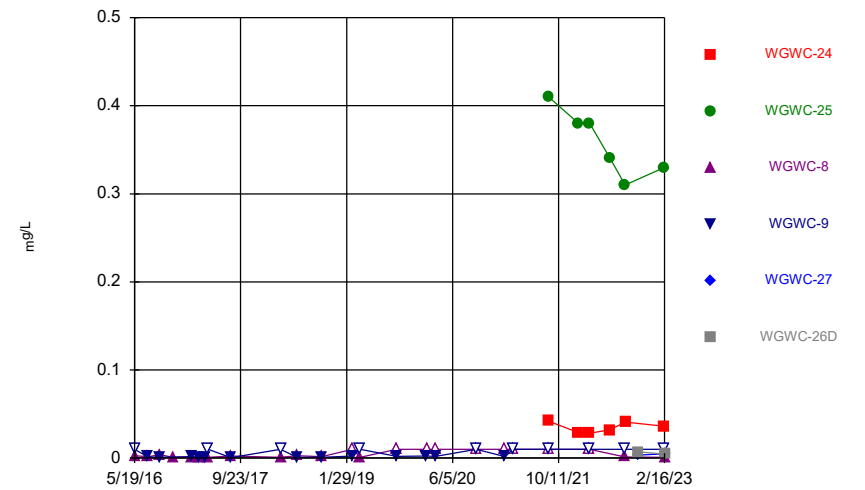
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Time Series



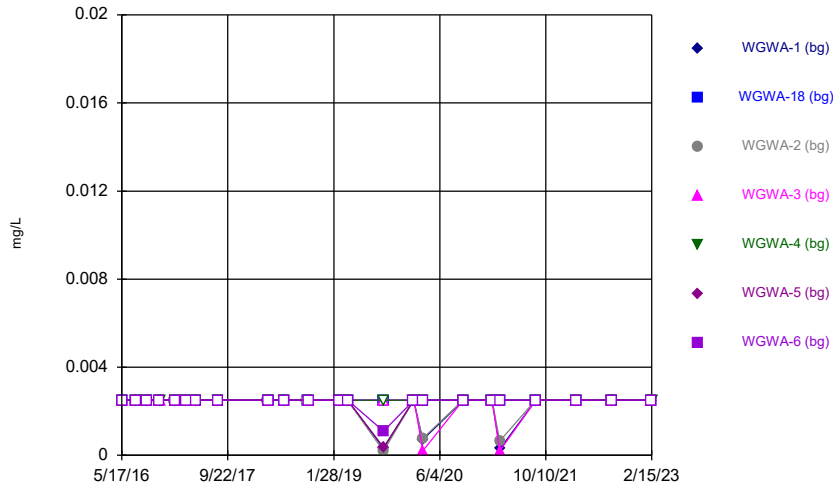
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



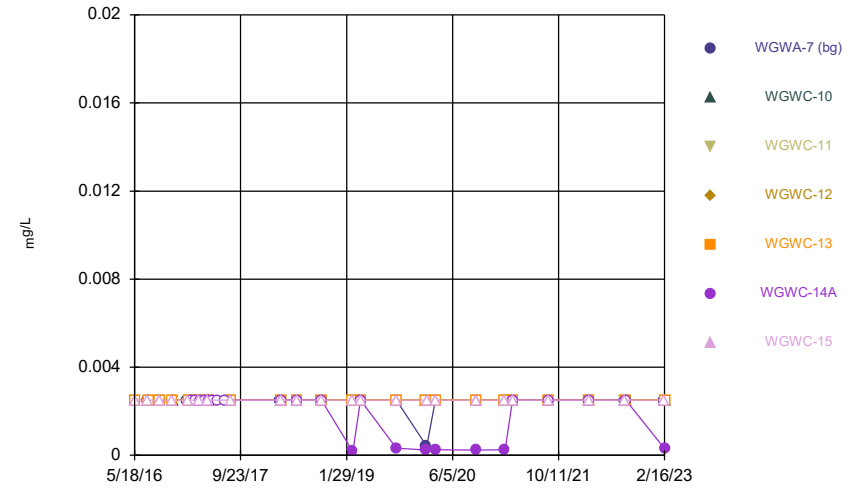
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Time Series



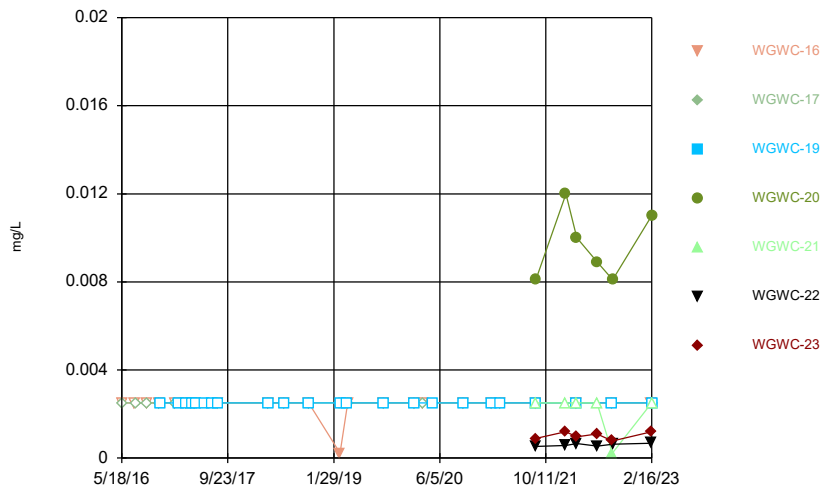
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Time Series



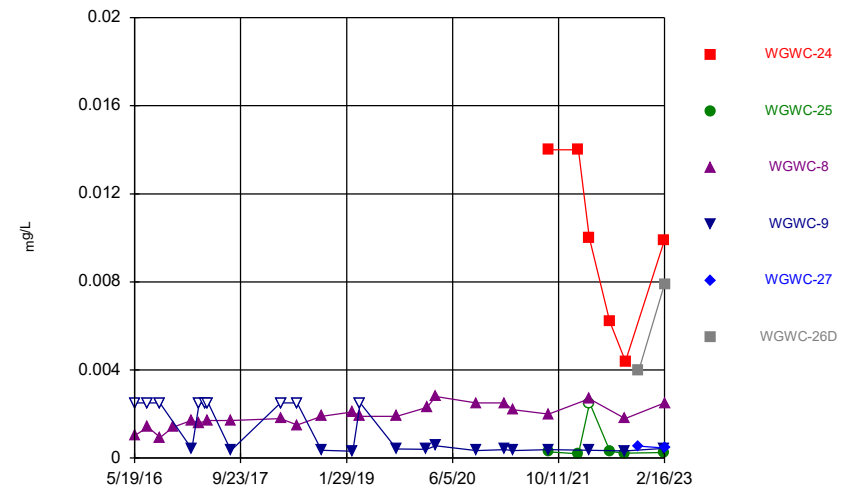
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Time Series



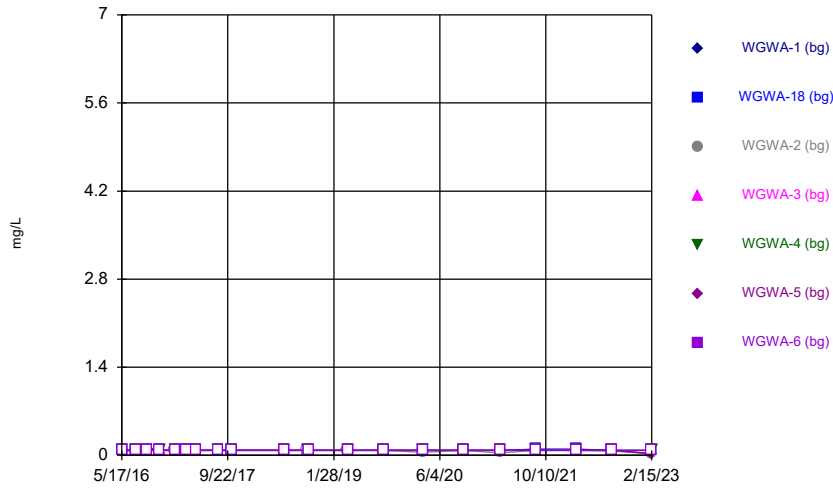
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Time Series



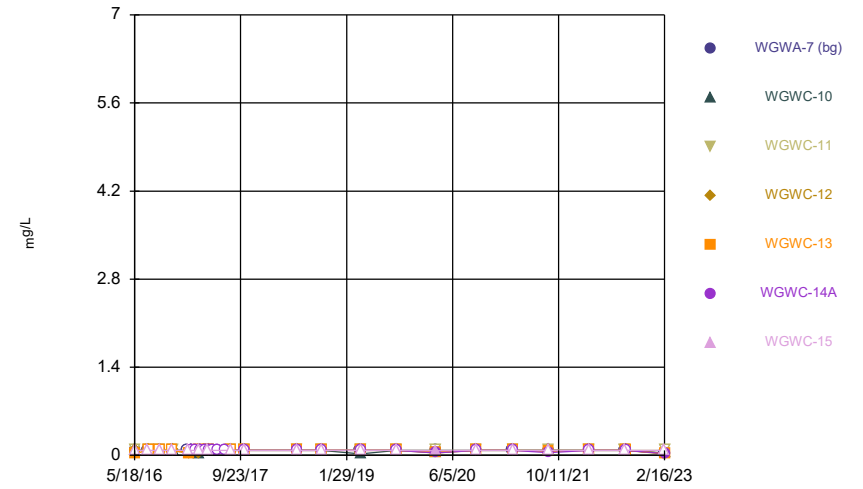
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



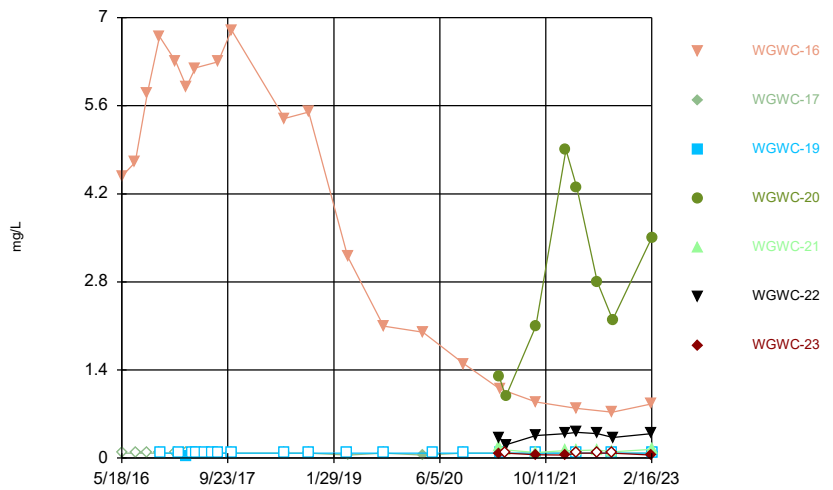
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



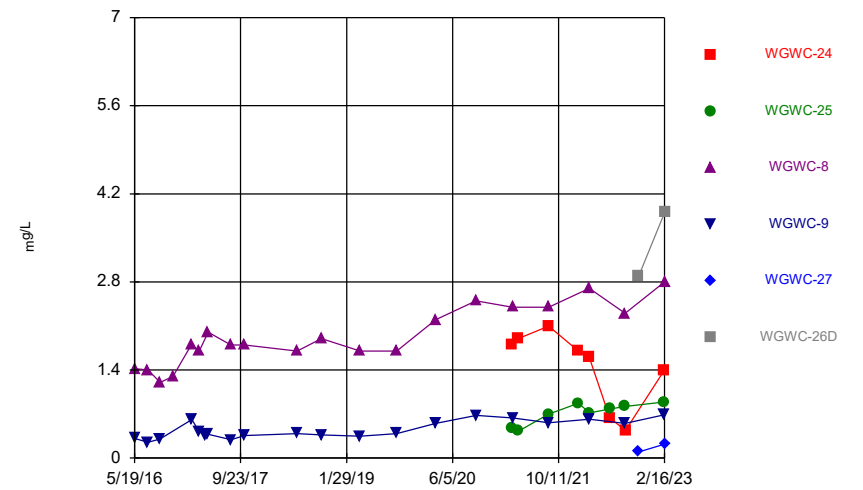
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



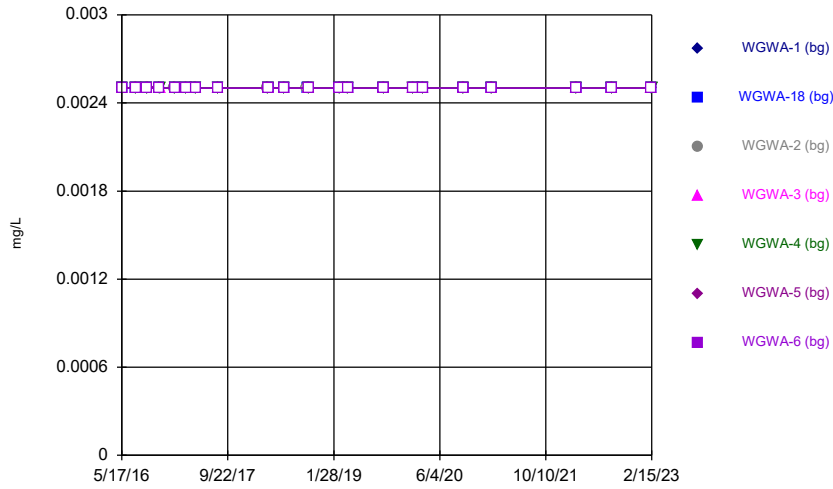
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



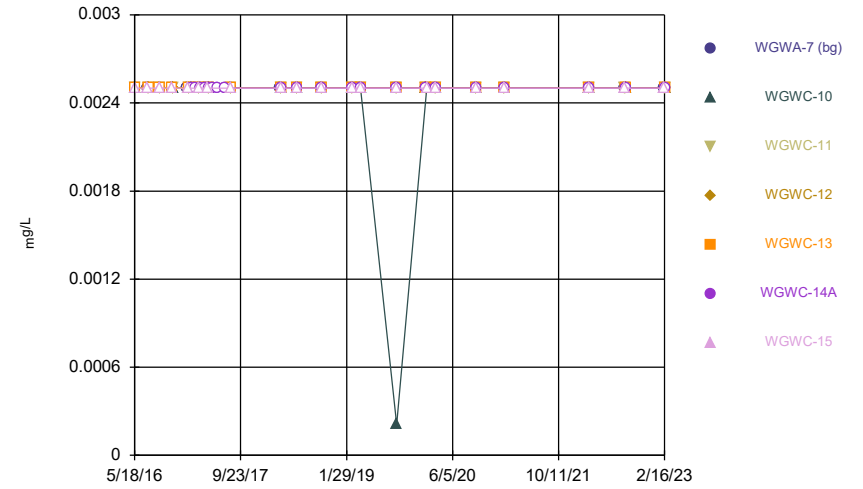
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



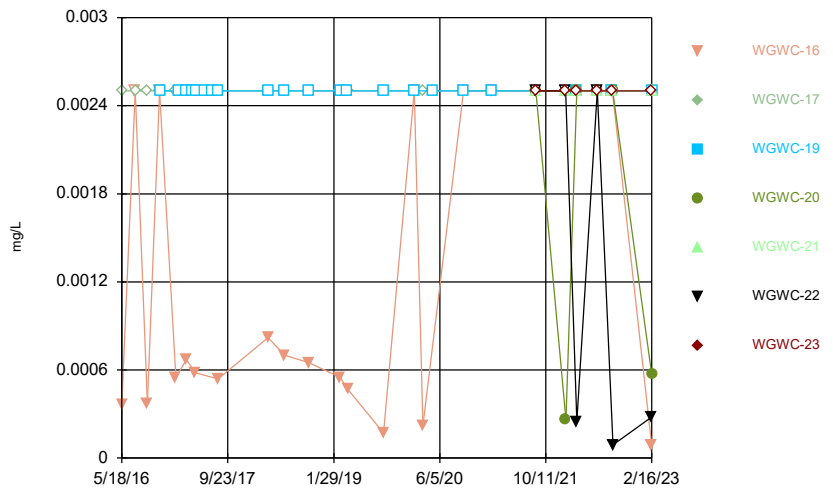
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



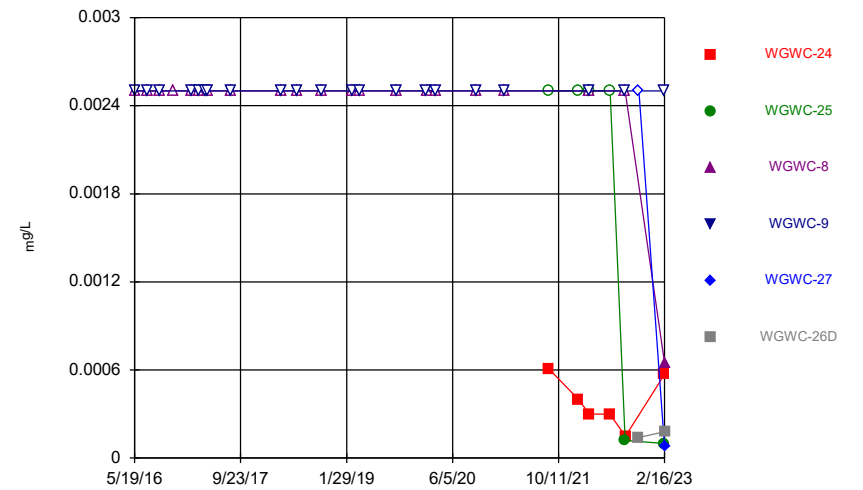
Constituent: Cadmium Analysis Run 4/24/2023 11:56 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



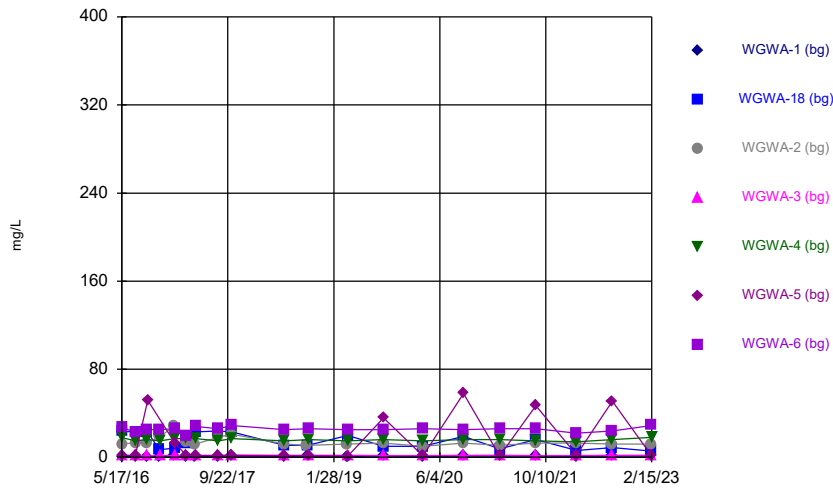
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



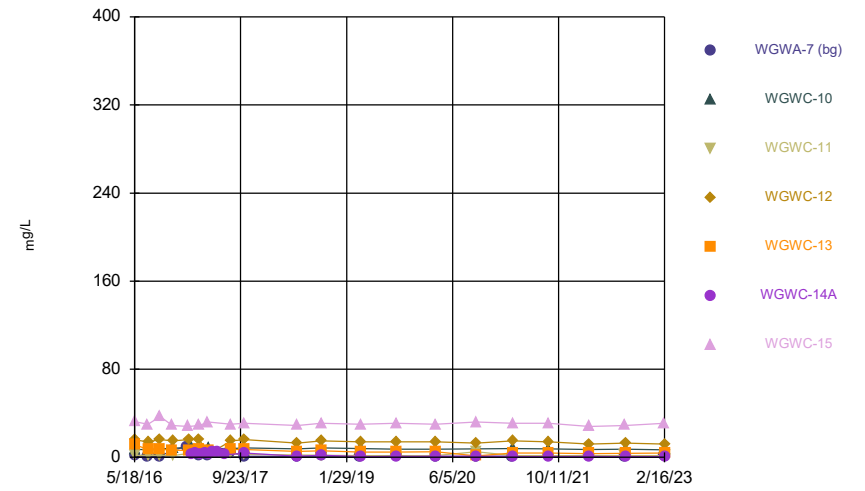
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



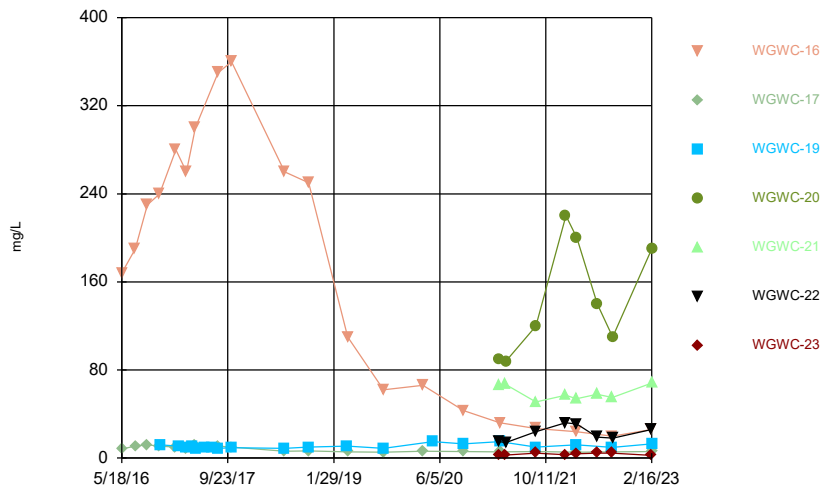
Constituent: Calcium, total Analysis Run 4/24/2023 11:56 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



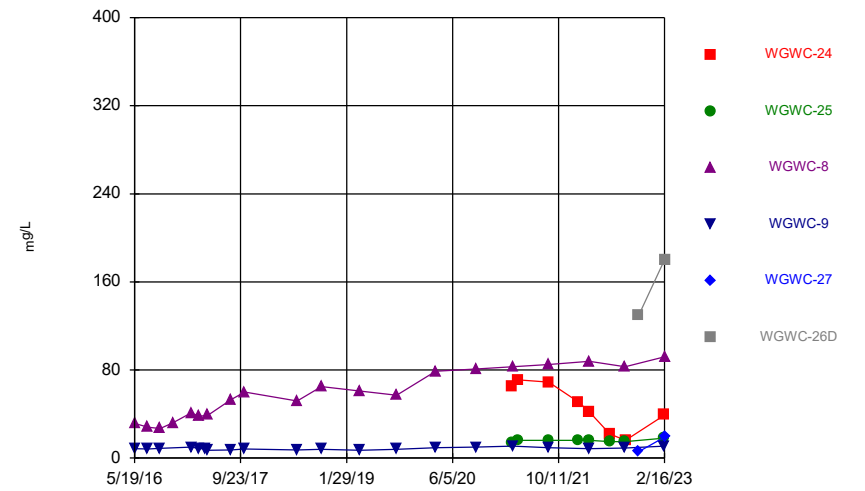
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



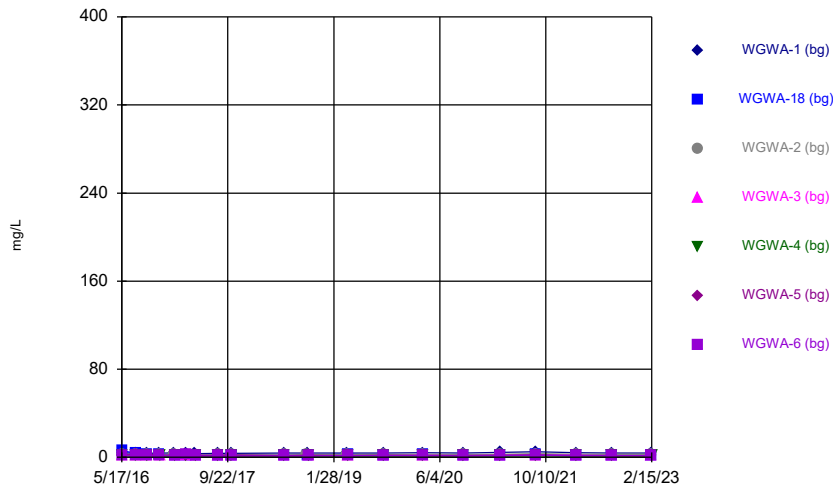
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



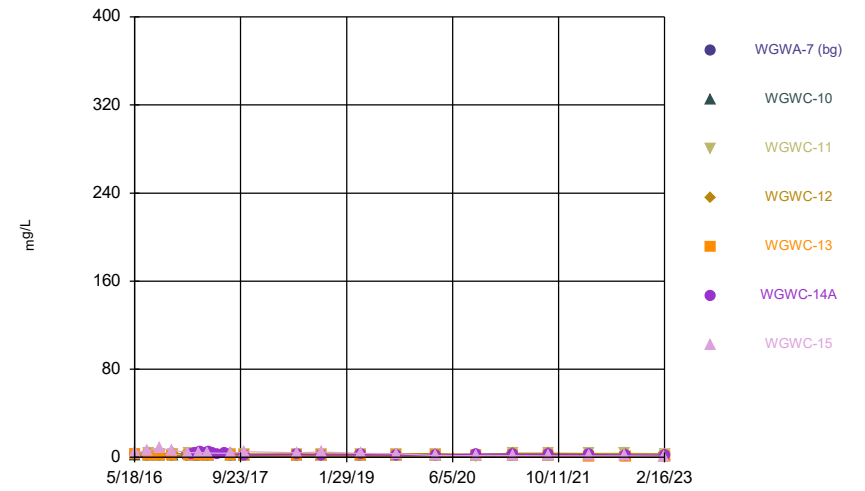
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



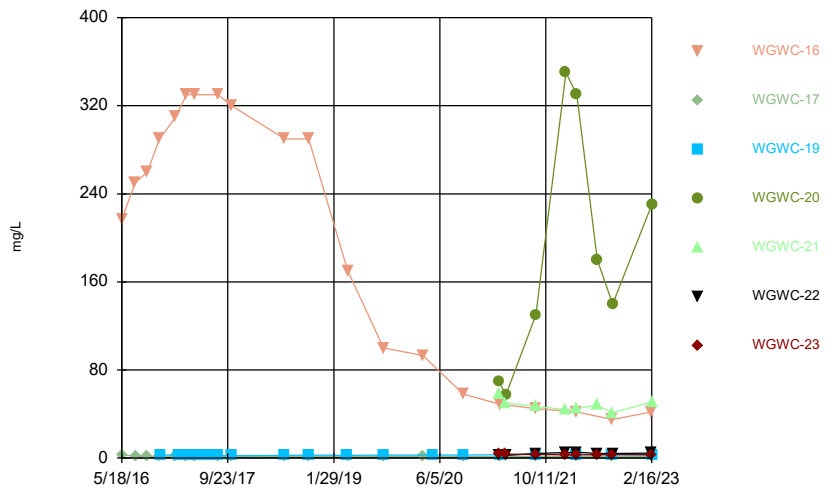
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



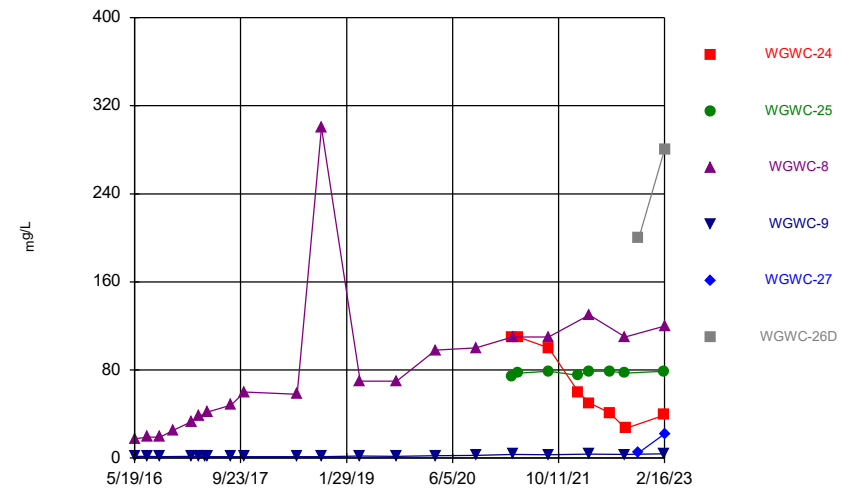
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



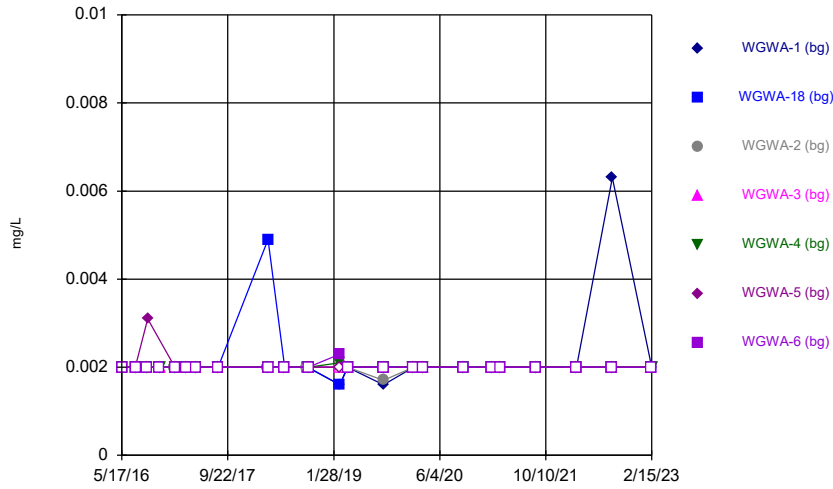
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



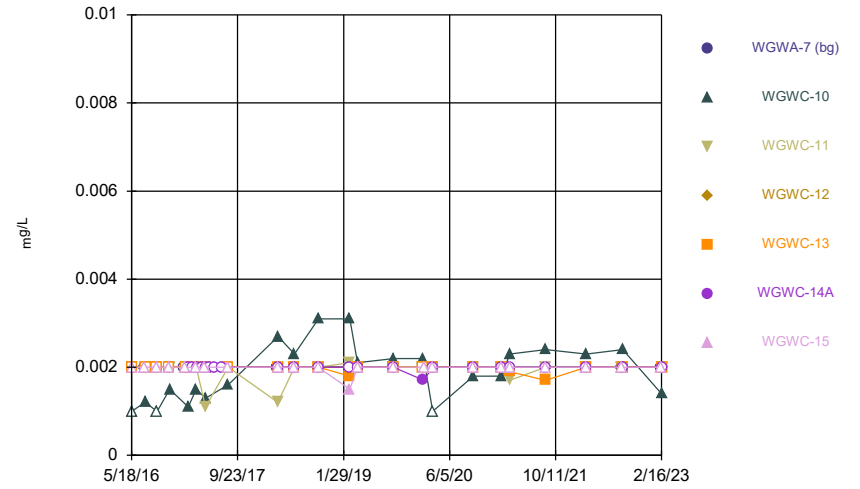
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



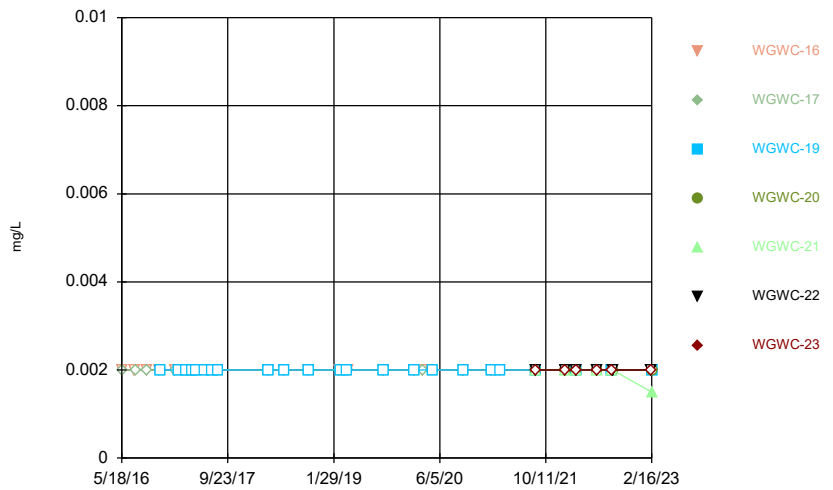
Constituent: Chromium Analysis Run 4/24/2023 11:56 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



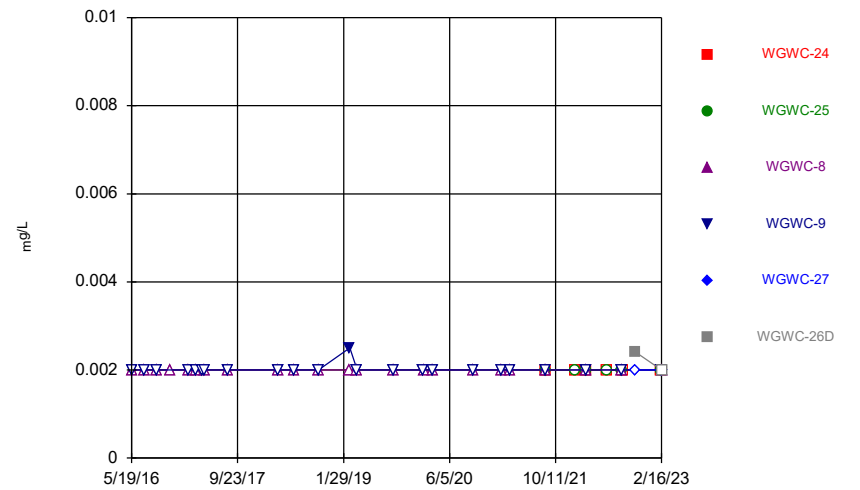
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



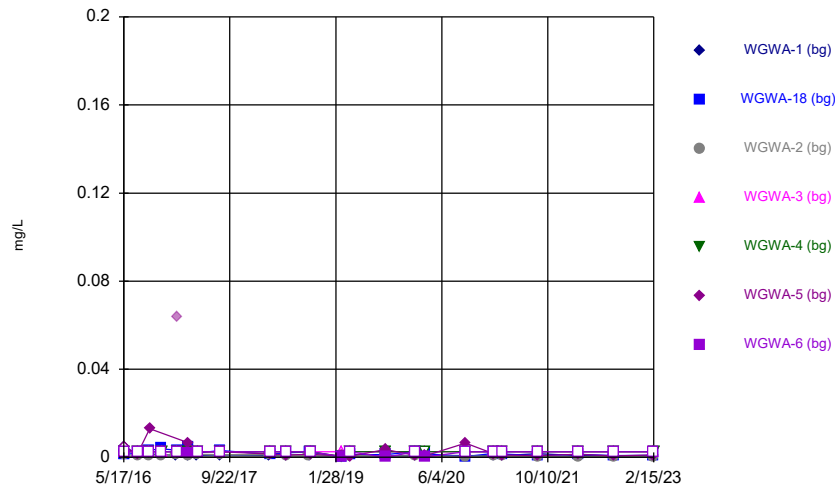
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



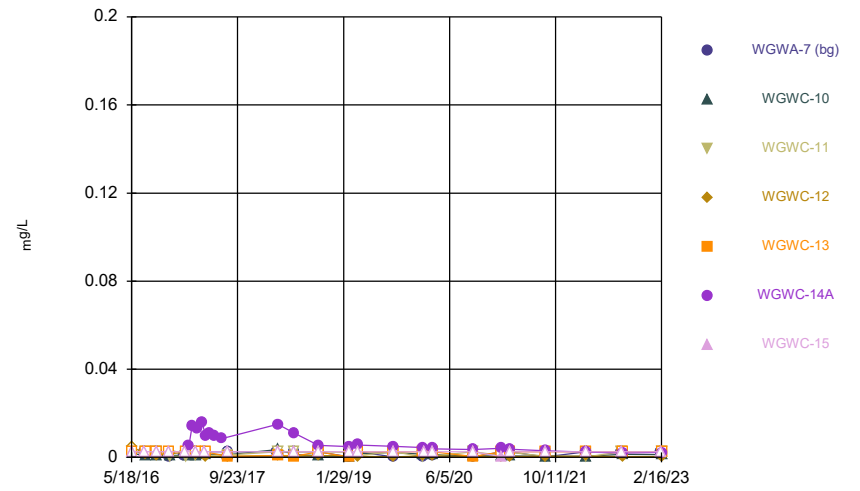
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



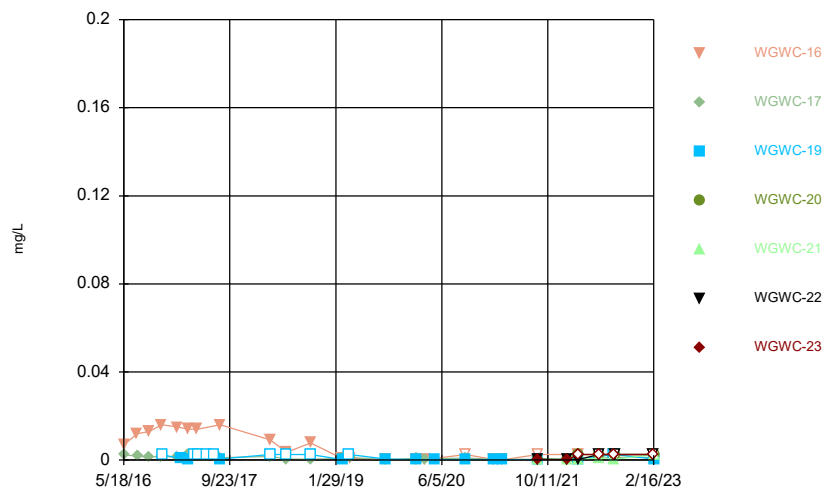
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



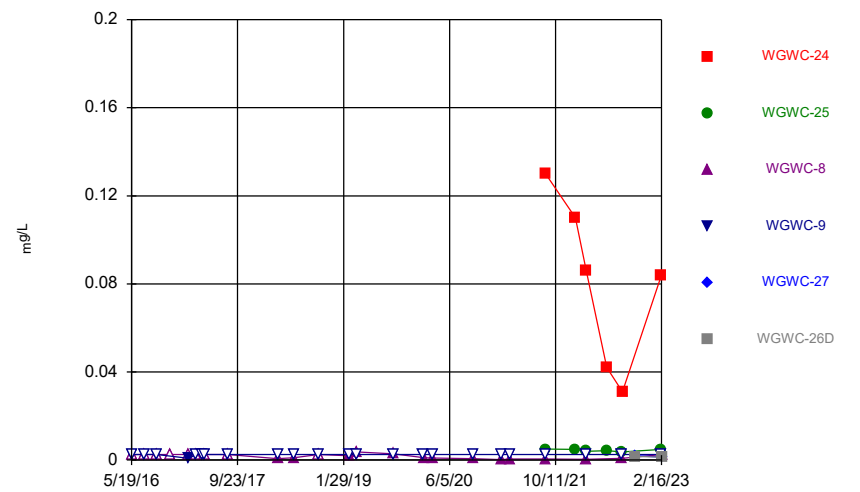
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



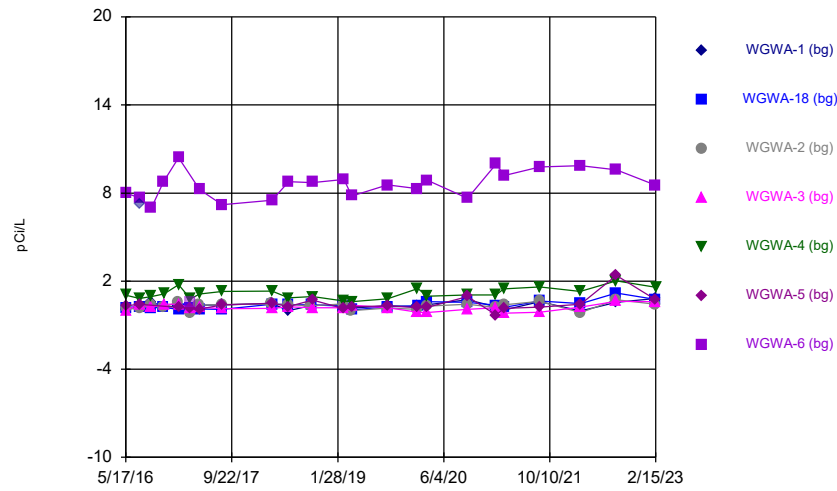
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



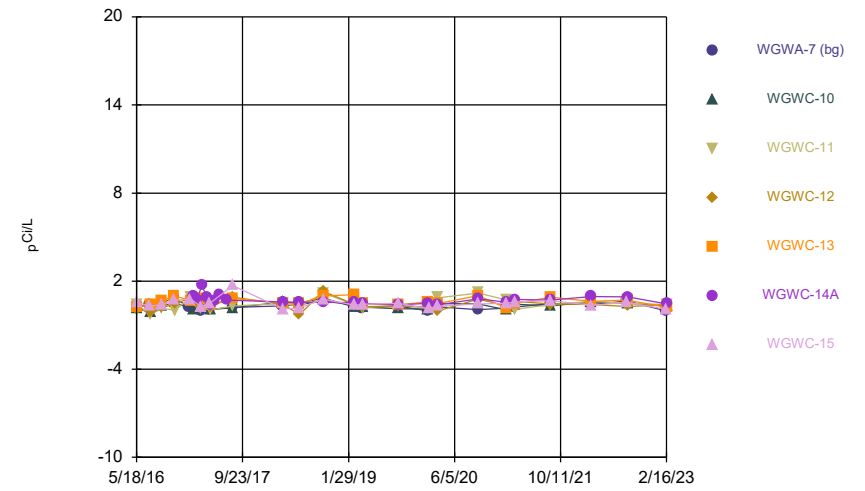
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



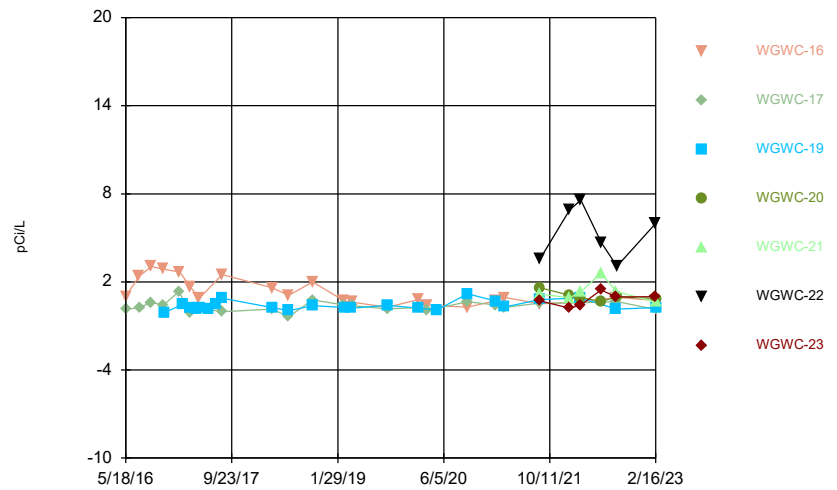
Constituent: Combined Radium 226 + 228 Analysis Run 4/24/2023 11:56 AM View: Time Series & Box Plo
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



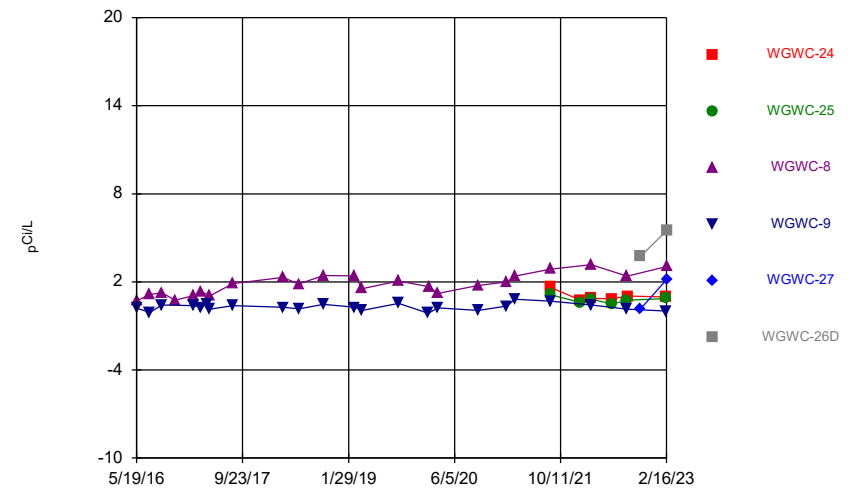
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



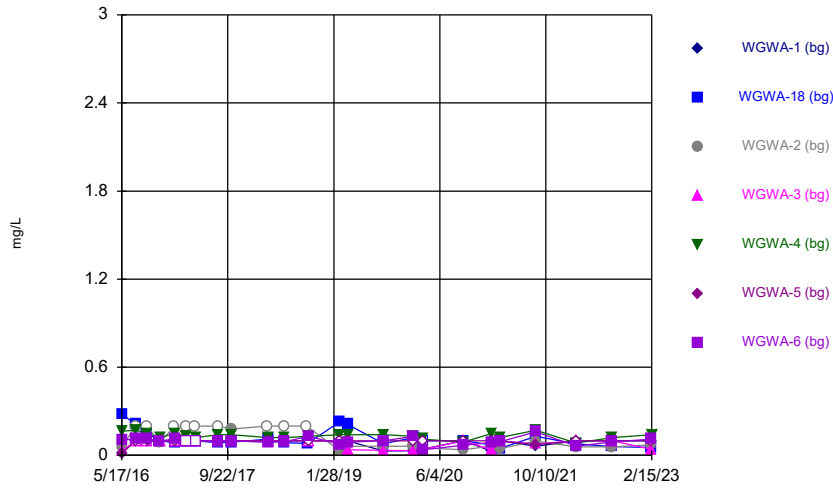
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



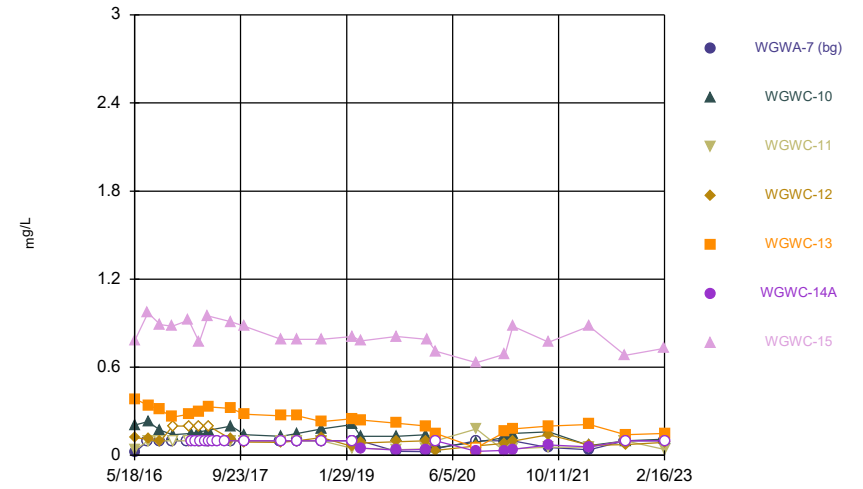
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



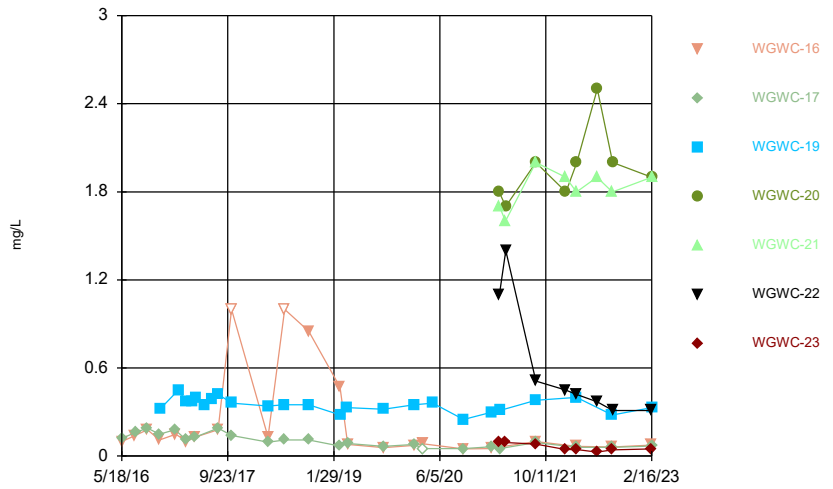
Constituent: Fluoride, total Analysis Run 4/24/2023 11:56 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



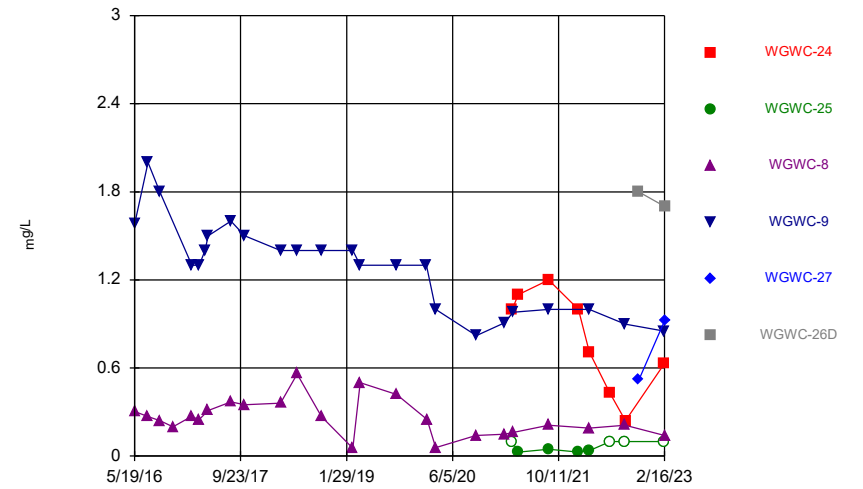
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



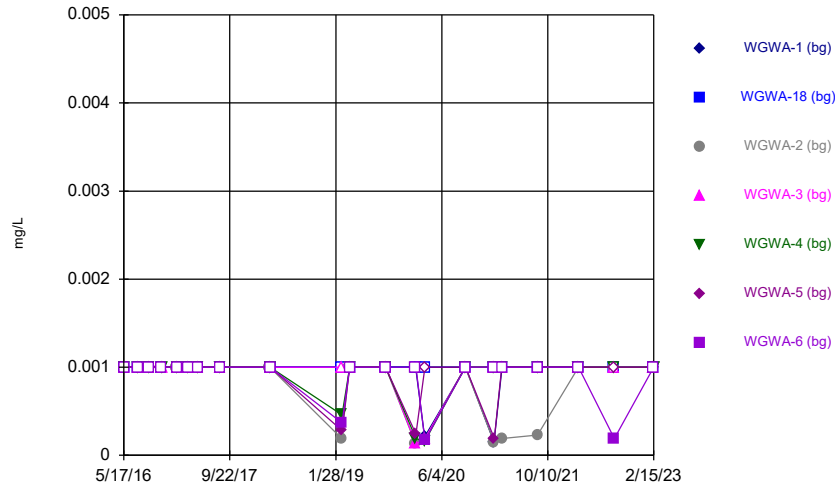
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



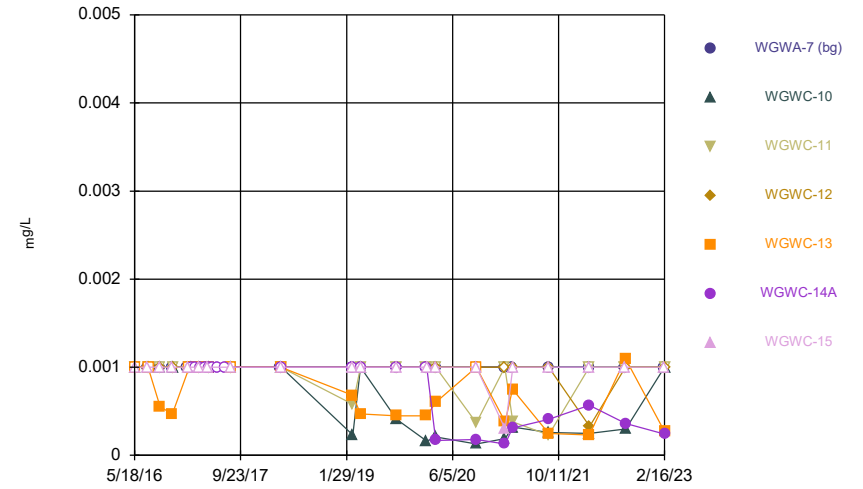
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



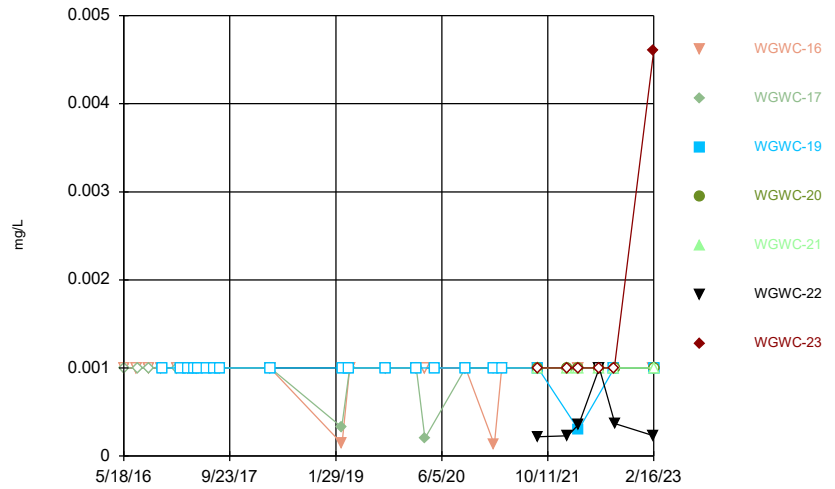
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



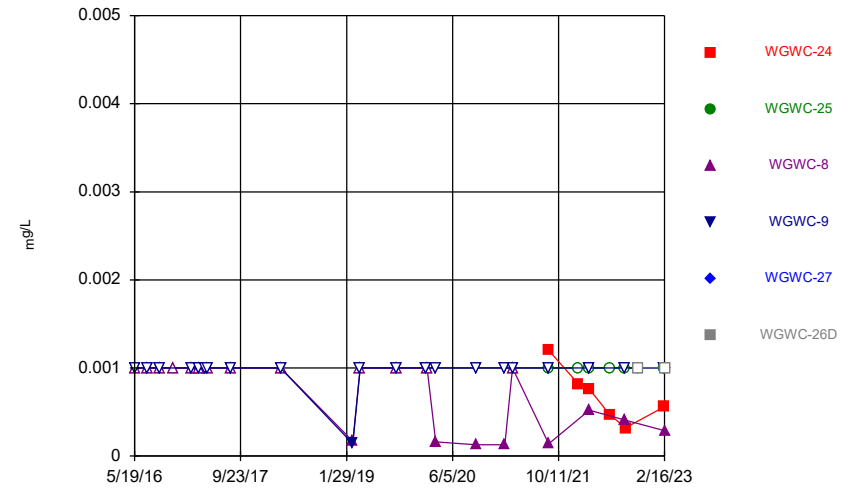
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



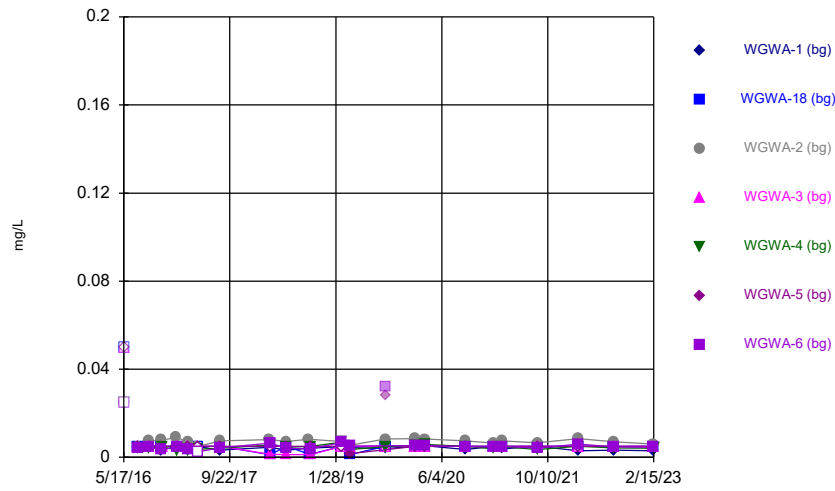
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Time Series



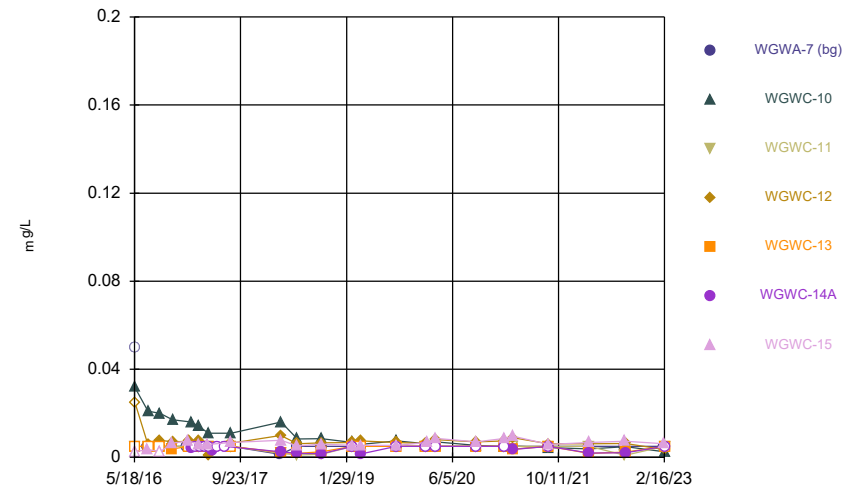
Constituent: Lead Analysis Run 4/24/2023 11:57 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



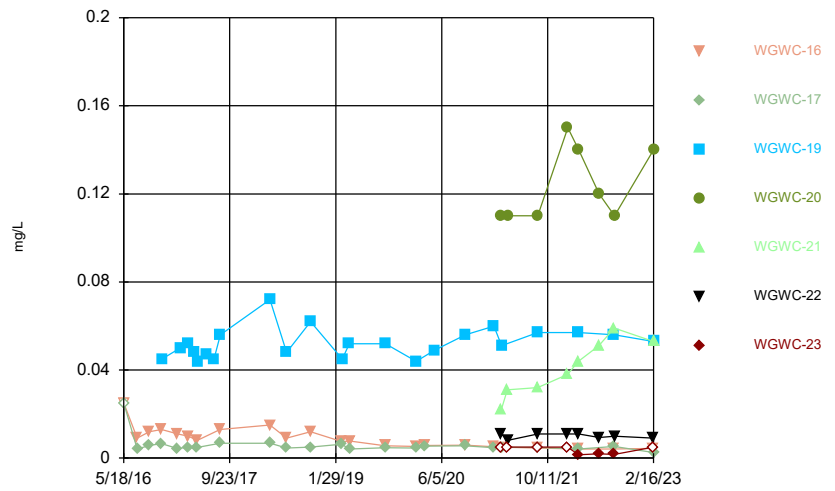
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



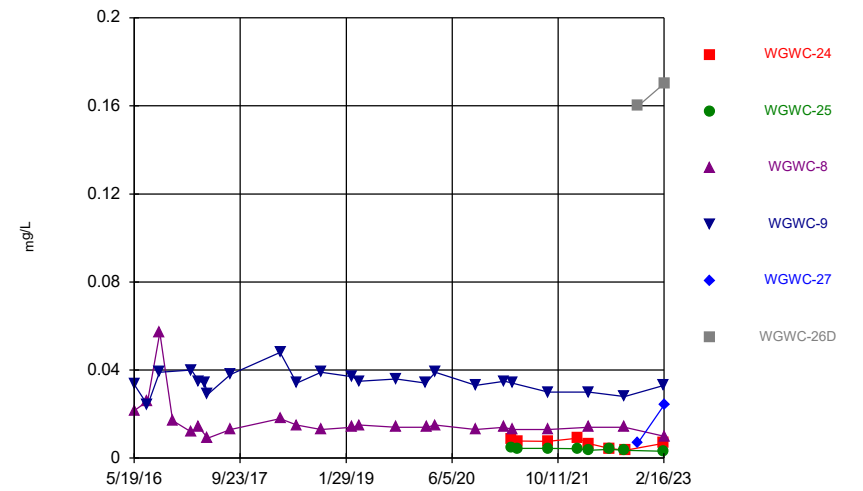
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



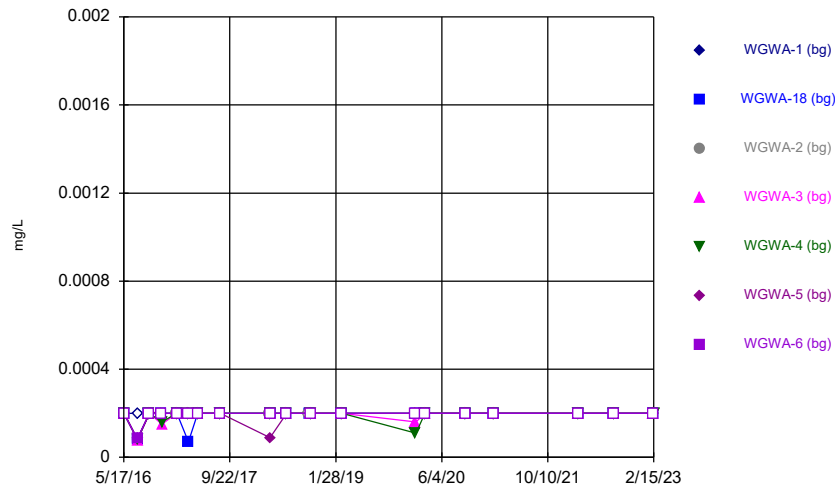
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



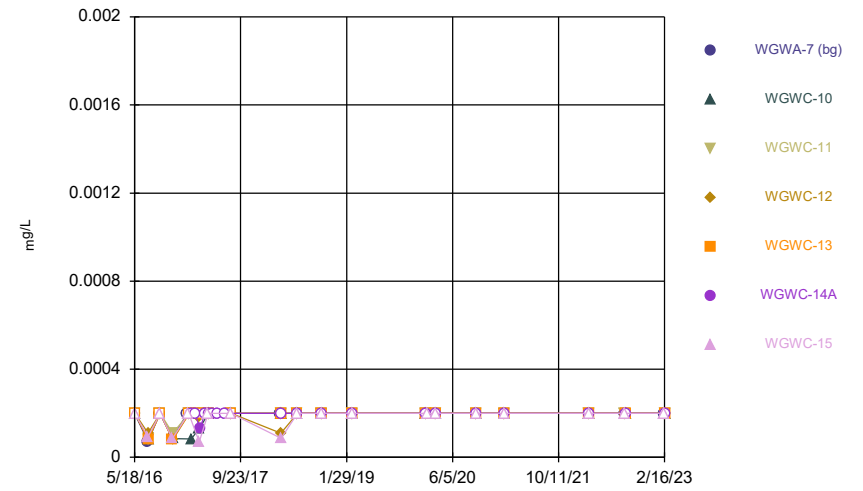
Constituent: Lithium Analysis Run 4/24/2023 11:57 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



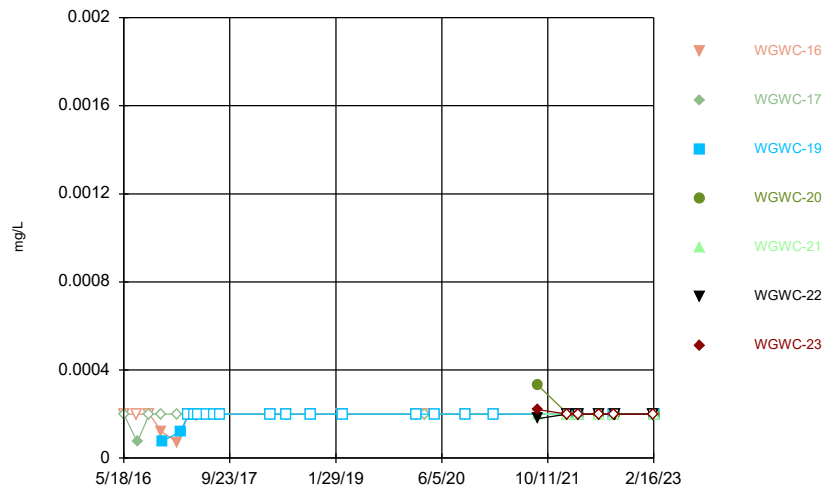
Constituent: Mercury Analysis Run 4/24/2023 11:57 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



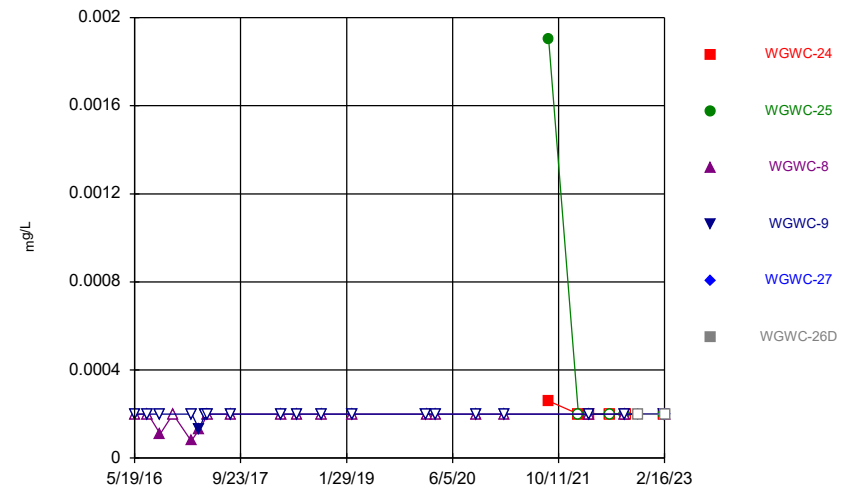
Constituent: Mercury Analysis Run 4/24/2023 11:57 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



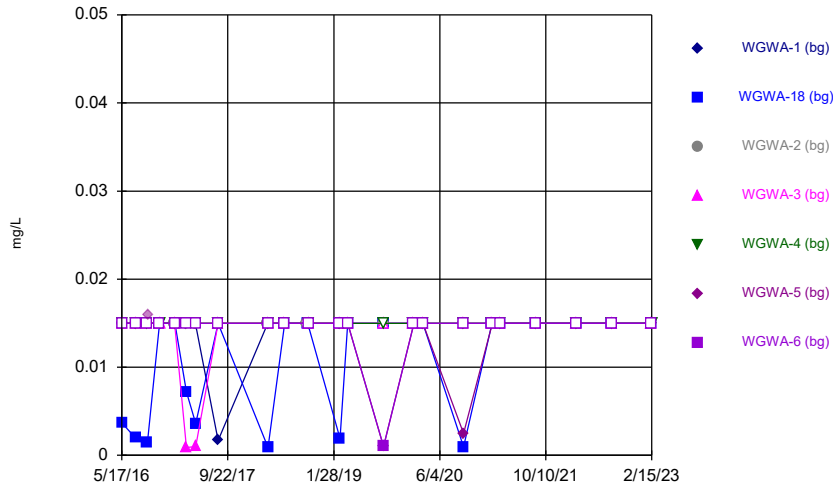
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



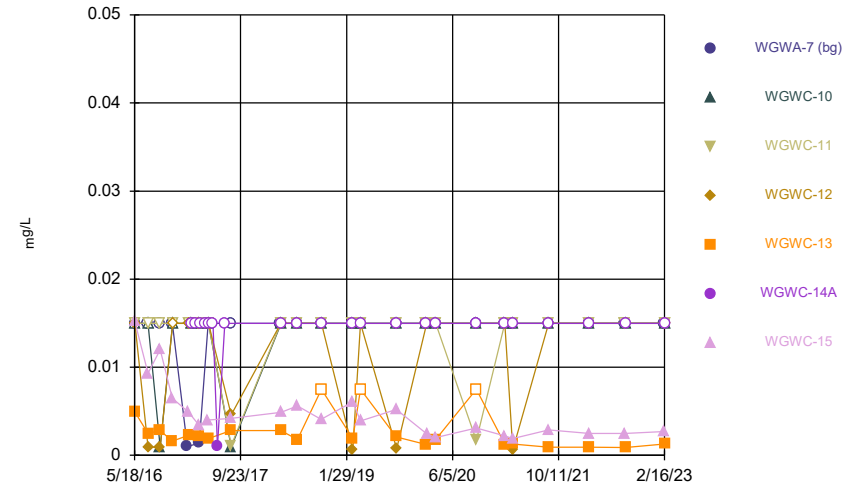
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



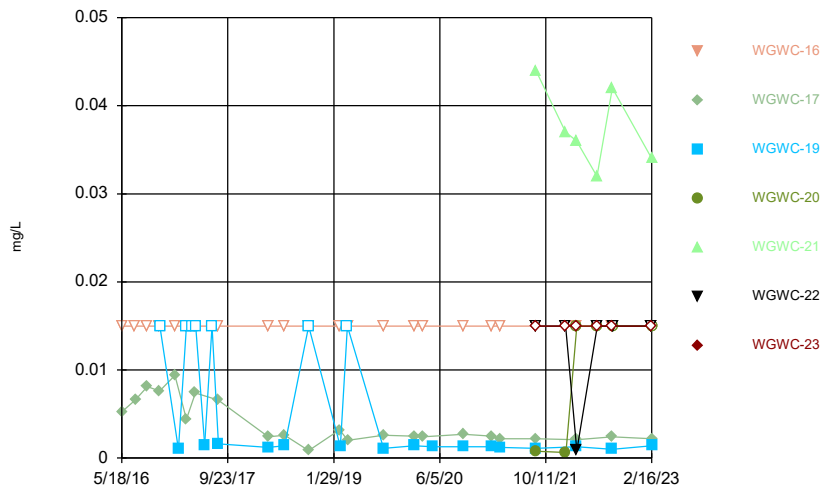
Constituent: Molybdenum Analysis Run 4/24/2023 11:57 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



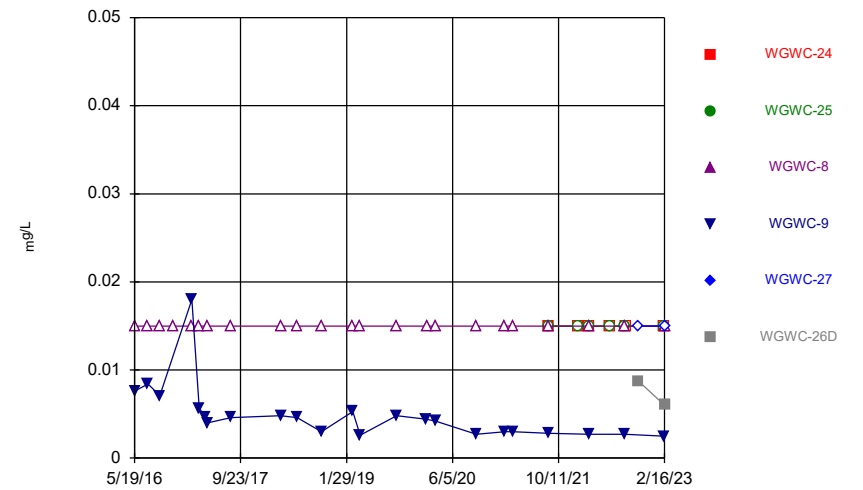
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



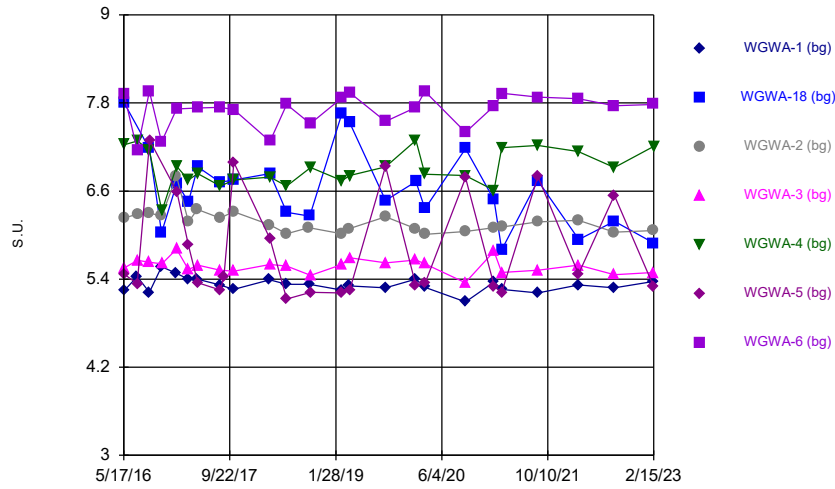
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



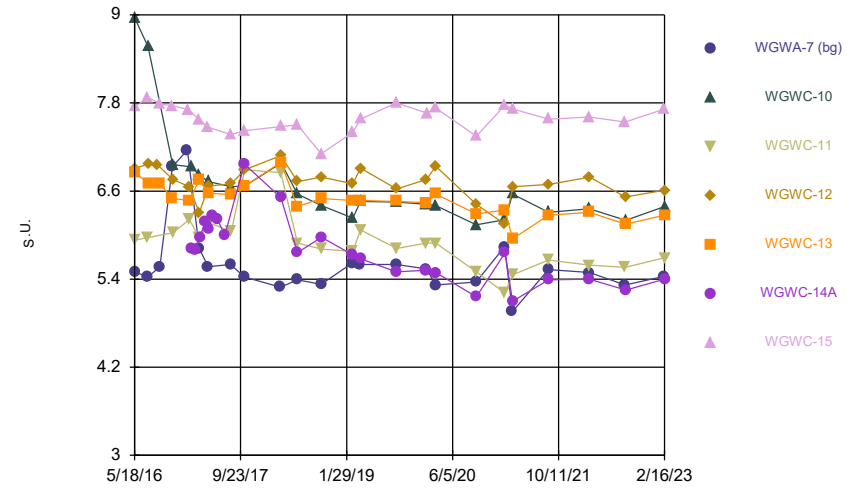
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



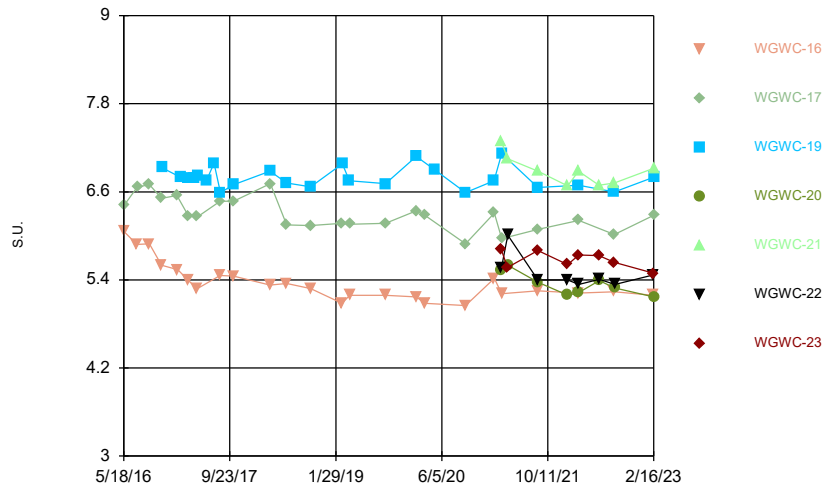
Constituent: pH, Field Analysis Run 4/24/2023 11:57 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



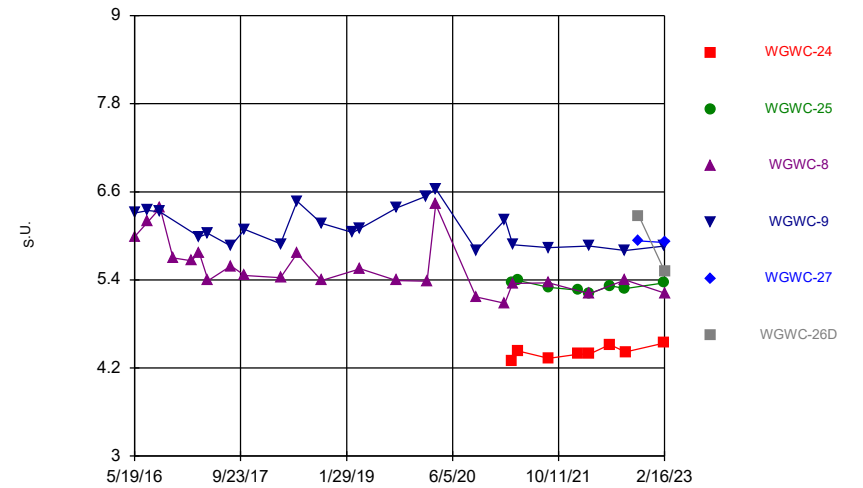
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



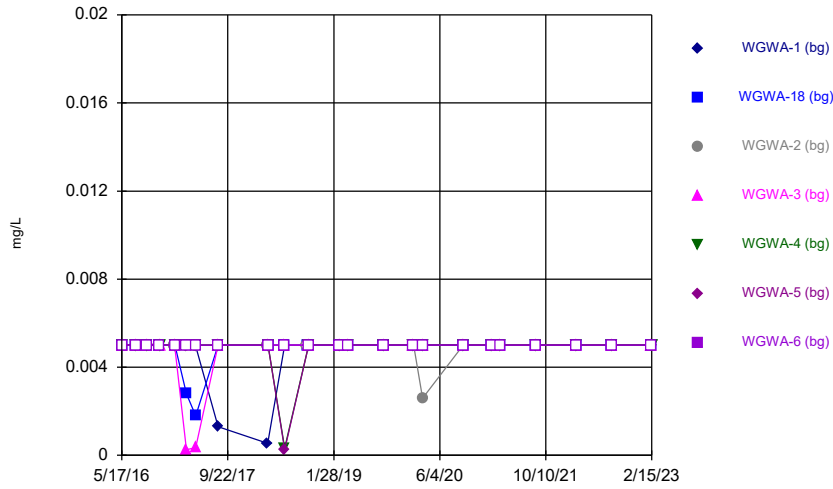
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



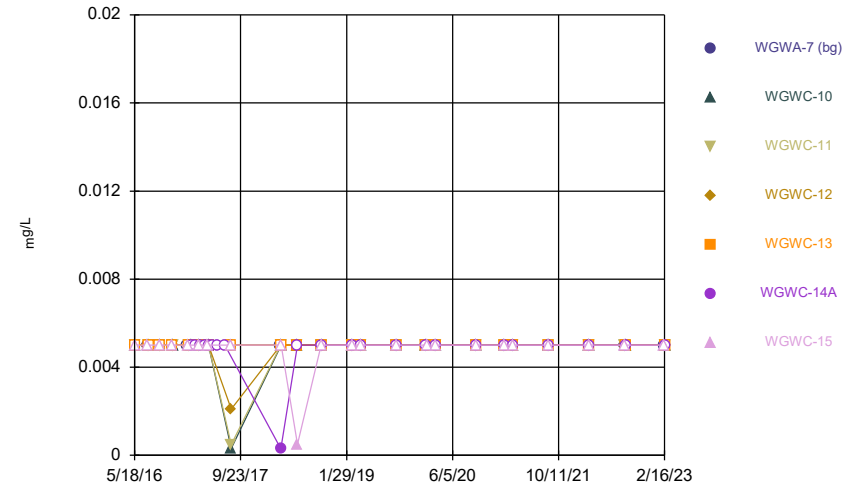
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



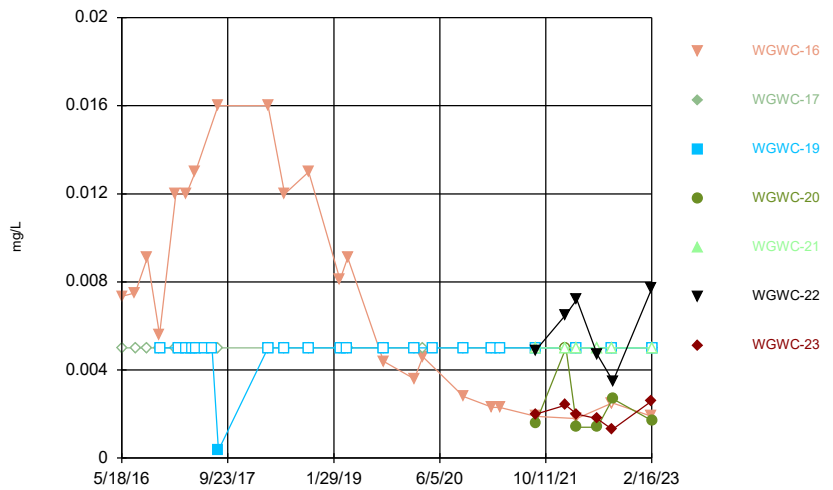
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



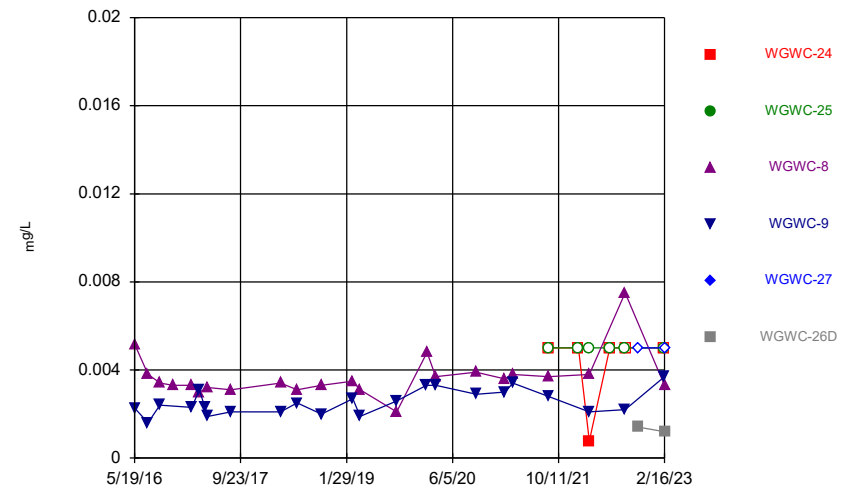
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



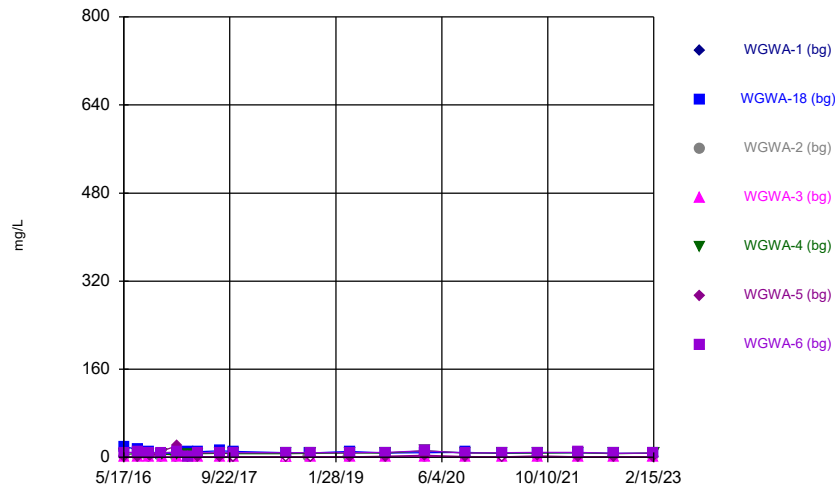
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



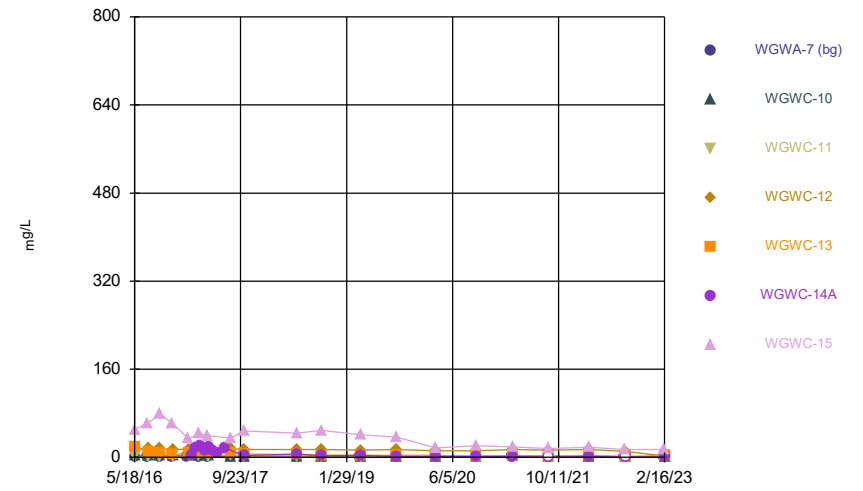
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



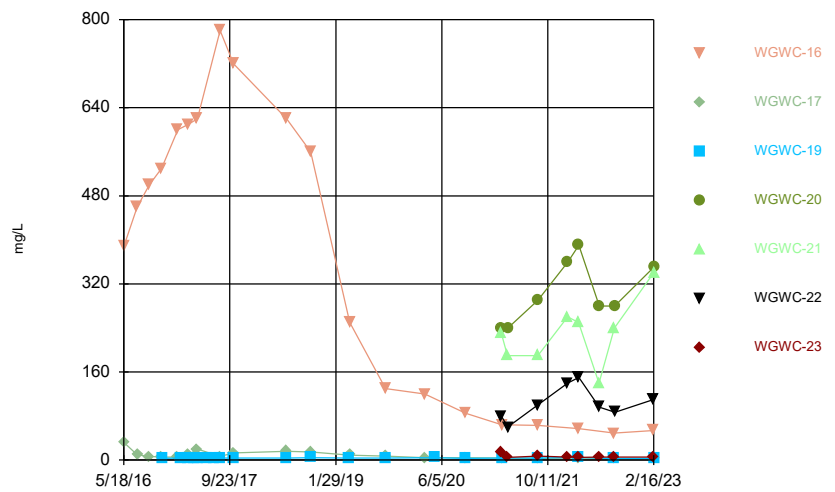
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



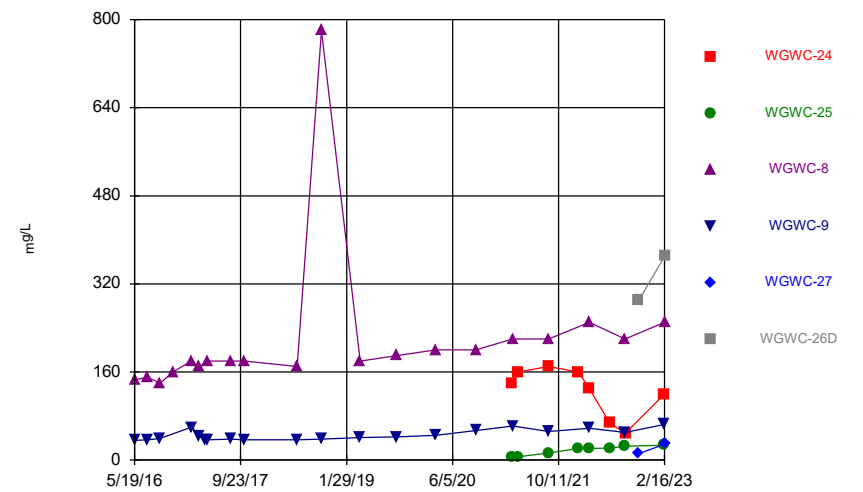
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



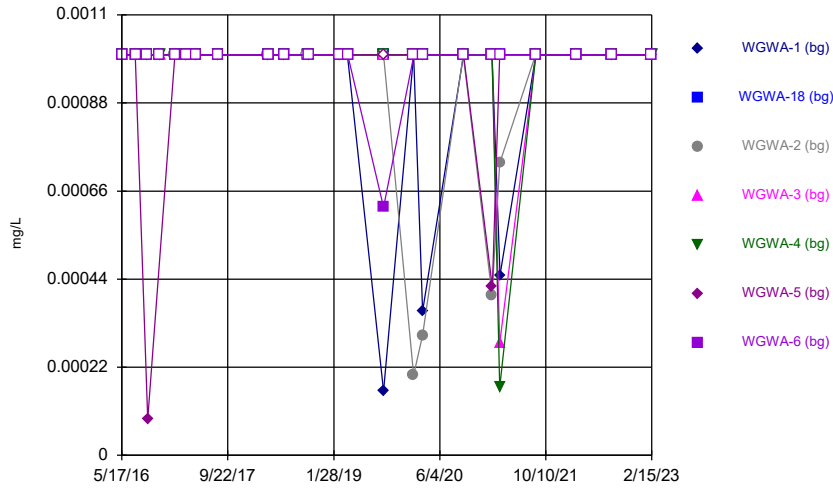
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



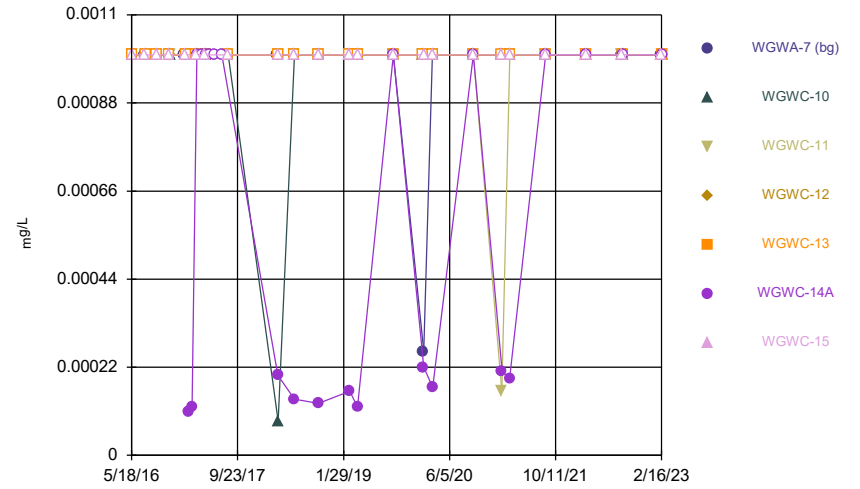
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



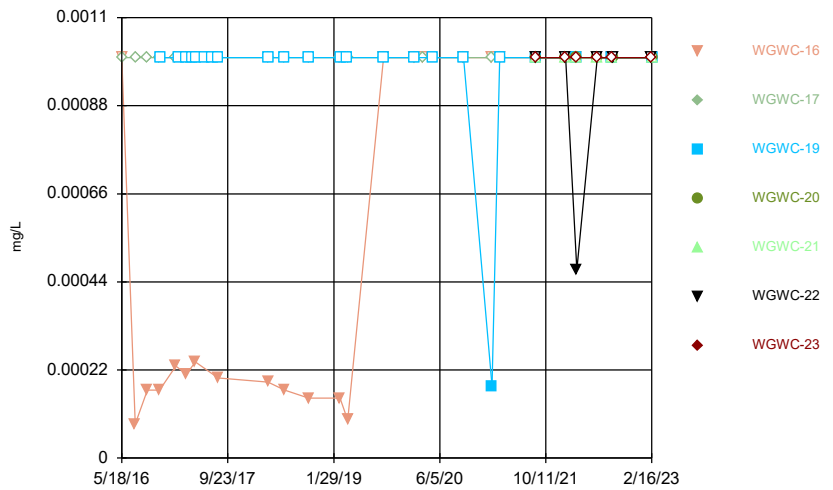
Constituent: Thallium Analysis Run 4/24/2023 11:57 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



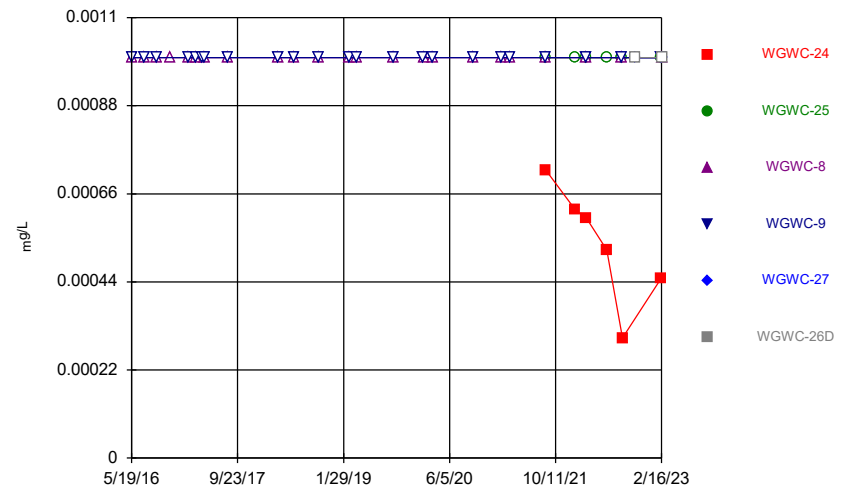
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



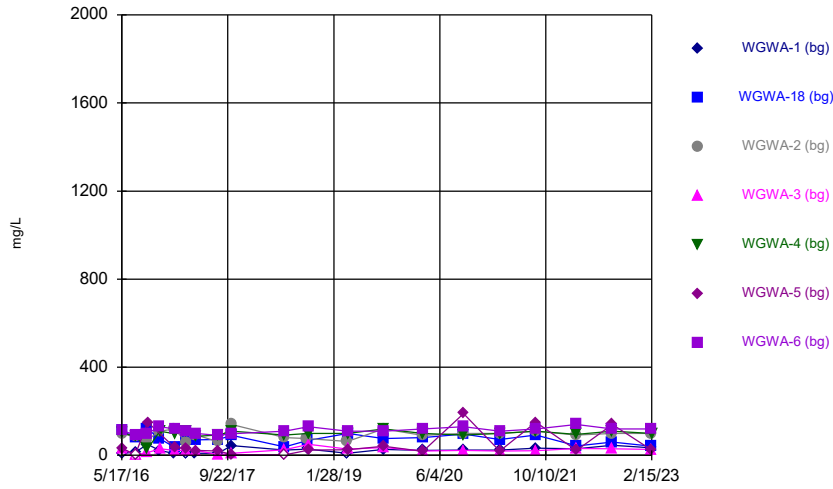
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



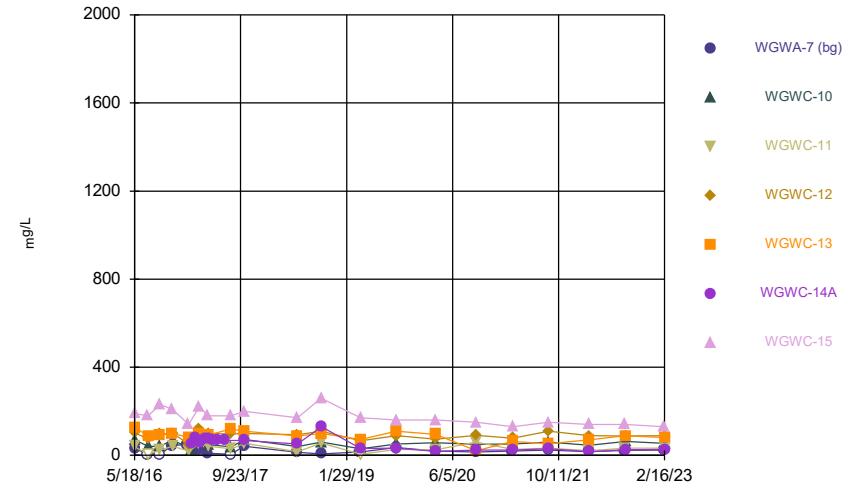
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



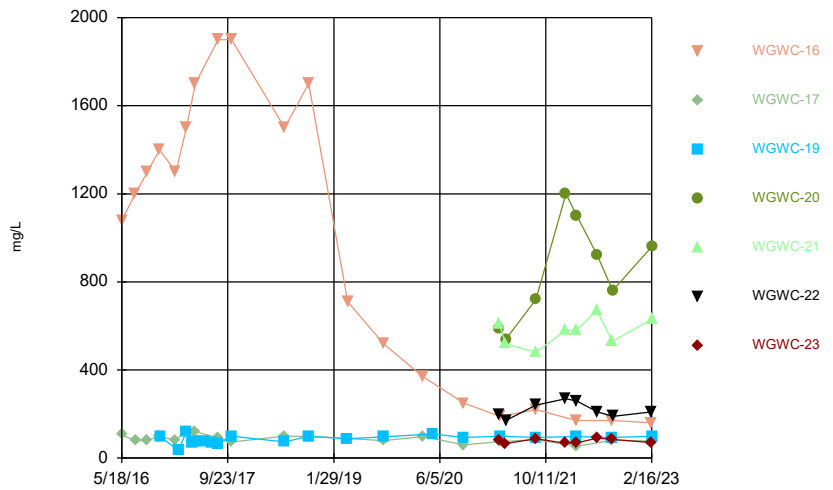
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/24/2023 11:57 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



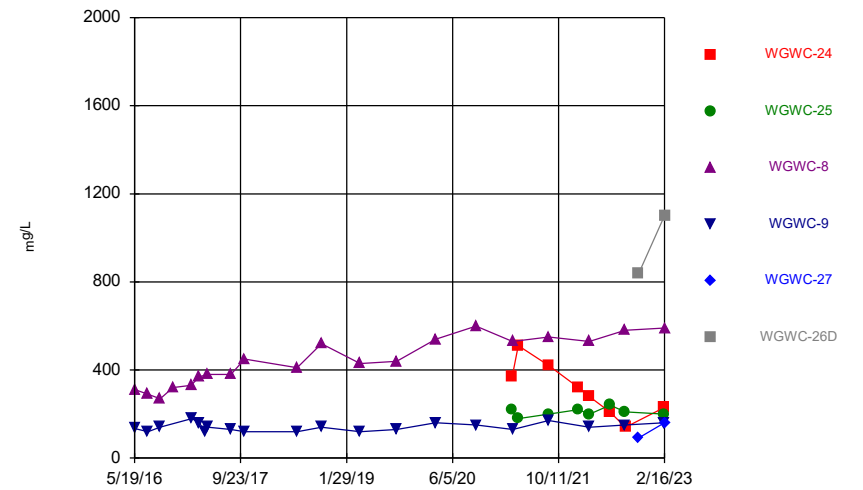
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/24/2023 11:57 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/24/2023 11:57 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/24/2023 11:57 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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
8/23/2021			<0.002				
8/24/2021	<0.002				<0.002	<0.002	<0.002
8/25/2021		<0.002		<0.002			
2/28/2022					<0.002		
3/1/2022	<0.002		<0.002	<0.002		<0.002	<0.002
3/3/2022		<0.002					
8/15/2022	<0.002		<0.002			<0.002	<0.002
8/16/2022		<0.002		<0.002	0.00051 (J)		
2/14/2023	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
2/15/2023					<0.002		

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.002	<0.002					<0.002
5/19/2016			<0.002	<0.002	<0.002		
7/19/2016	<0.002						<0.002
7/20/2016		<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
11/10/2016	<0.002				<0.002		<0.002
11/11/2016		<0.002	<0.002	<0.002			
1/18/2017	<0.002						
1/24/2017							<0.002
1/27/2017			<0.002	<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	<0.002	<0.002		
3/17/2017						<0.002	
4/11/2017						<0.002	
4/25/2017	<0.002						<0.002
4/26/2017		<0.002	<0.002	<0.002	<0.002	<0.002	
5/17/2017						<0.002	
6/7/2017						<0.002	
7/11/2017						<0.002	
8/8/2017	<0.002						
8/9/2017					<0.002		<0.002
8/10/2017		<0.002	<0.002	0.0023 (J)			
3/28/2018	<0.002						
3/29/2018			<0.002	<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	<0.002	<0.002	<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			<0.002
3/19/2020					<0.002	<0.002	
2/2/2021	<0.002						
2/3/2021			<0.002	<0.002			
2/4/2021		<0.002			<0.002	<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
8/24/2021	<0.002						
8/25/2021			<0.002	<0.002	<0.002	<0.002	
8/26/2021		<0.002					<0.002
3/3/2022	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002
3/4/2022				<0.002			
8/16/2022	<0.002		0.00053 (J)				
8/17/2022							<0.002
8/18/2022				<0.002	<0.002		
8/19/2022		<0.002				<0.002	
2/14/2023	<0.002						

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/15/2023							<0.002
2/16/2023		<0.002	<0.002	<0.002	<0.002	<0.002	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.002	<0.002					
7/19/2016	<0.002						
7/20/2016		<0.002					
9/14/2016	<0.002	<0.002					
11/10/2016	<0.002	<0.002					
11/11/2016			<0.002				
1/20/2017		<0.002					
1/24/2017	<0.002						
2/6/2017			<0.002				
3/14/2017		<0.002					
3/15/2017	<0.002		<0.002				
4/11/2017			<0.002				
4/25/2017	<0.002	<0.002					
4/26/2017			<0.002				
6/7/2017			<0.002				
7/11/2017			<0.002				
8/9/2017	<0.002	<0.002					
8/10/2017			<0.002				
3/29/2018	<0.002		<0.002				
3/30/2018		<0.002					
2/26/2019		<0.002					
2/27/2019	<0.002						
2/28/2019			<0.002				
2/7/2020	<0.002	<0.002	<0.002				
3/18/2020	<0.002	<0.002					
5/4/2020			<0.002				
2/3/2021			<0.002				
2/4/2021	<0.002	<0.002					
3/11/2021	<0.002	<0.002	<0.002				
8/25/2021	<0.002	<0.002					
8/26/2021			<0.002	<0.002	0.00076 (J)	<0.002	<0.002
1/11/2022					<0.002	0.00078 (J)	0.0012 (J)
1/12/2022				0.00066 (J)			
3/3/2022	<0.002		<0.002		0.00053 (J)		
3/4/2022		<0.002		0.0011 (J)		0.00082 (J)	0.0018 (J)
6/6/2022					<0.002		0.0013 (J)
6/7/2022				<0.002		0.00054 (J)	
8/16/2022		<0.002			0.00055 (J)		
8/17/2022	<0.002		0.00058 (J)				<0.002
8/18/2022				<0.002			
8/19/2022						<0.002	
2/15/2023	<0.002					0.0012 (J)	0.0022
2/16/2023		<0.002	<0.002	<0.002	<0.002		

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			<0.002	<0.002		
7/20/2016			<0.002	<0.002		
9/14/2016				<0.002		
9/15/2016			<0.002			
11/14/2016			<0.002			
2/6/2017			<0.002			
2/9/2017				<0.002		
3/15/2017			<0.002	0.0011 (J)		
4/11/2017				<0.002		
4/26/2017			<0.002	<0.002		
8/10/2017			<0.002	<0.002		
3/29/2018			<0.002	<0.002		
2/27/2019			<0.002			
2/28/2019				<0.002		
2/5/2020				<0.002		
2/7/2020			<0.002			
3/19/2020			<0.002	0.00041 (J)		
2/3/2021			<0.002			
2/4/2021				0.00041 (J)		
3/11/2021			<0.002			
3/12/2021				<0.002		
8/26/2021	<0.002	<0.002	<0.002	<0.002		
1/11/2022	<0.002	<0.002				
3/3/2022	<0.002		<0.002	0.008		
3/4/2022		<0.002				
6/6/2022	<0.002					
6/7/2022		<0.002				
8/16/2022			0.011			
8/17/2022		<0.002		0.0043		
8/18/2022	<0.002					
10/19/2022					<0.002	<0.002
2/15/2023	<0.002	<0.002		0.00048 (J)		
2/16/2023			0.00064 (J)		0.00047 (J)	<0.002

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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
8/23/2021			<0.001				
8/24/2021	<0.001				<0.001	<0.001	<0.001
8/25/2021		<0.001		<0.001			
2/28/2022					<0.001		
3/1/2022	<0.001		<0.001	<0.001		<0.001	<0.001
3/3/2022		<0.001					
8/15/2022	<0.001		<0.001			<0.001	<0.001
8/16/2022		<0.001		<0.001	<0.001		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
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)
2/14/2023	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
2/15/2023					<0.001		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001	<0.001					0.00345
5/19/2016			<0.001	<0.001	<0.001		
7/19/2016	<0.001						0.0031
7/20/2016		<0.001	<0.001	<0.001	<0.001		
9/13/2016	<0.001						
9/14/2016		<0.001	<0.001	<0.001	<0.001		0.0024
11/10/2016	<0.001				<0.001		0.0023
11/11/2016		<0.001	<0.001	<0.001			
1/18/2017	0.001 (J)						
1/24/2017							0.0019
1/27/2017			0.00047 (J)	<0.001	0.00066 (J)		
2/6/2017		<0.001					
2/8/2017						<0.001	
2/23/2017						<0.001	
3/14/2017	<0.001						0.0016
3/15/2017		<0.001	<0.001	<0.001	<0.001		
3/17/2017						0.0006 (J)	
4/11/2017						0.0032	
4/25/2017	<0.001						0.0019
4/26/2017		<0.001	<0.001	<0.001	<0.001	0.0019	
5/17/2017						0.0014	
6/7/2017						0.0021	
7/11/2017						0.00095 (J)	
8/8/2017	<0.001						
8/9/2017					<0.001		0.0017
8/10/2017		<0.001	<0.001	0.00048 (J)			
3/28/2018	<0.001						
3/29/2018			<0.001	<0.001	0.00067 (J)	<0.001	
3/30/2018		<0.001					0.0018
6/14/2018	0.0005 (J)	0.0005 (J)	<0.001	0.00052 (J)	0.00093 (J)	<0.001	0.002
10/3/2018	<0.001						0.0024
10/4/2018		0.00089 (J)	0.00054 (J)	<0.001	0.0015	0.0017	
2/26/2019	<0.001						
2/27/2019		<0.001	<0.001	<0.001	0.00036 (J)	<0.001	0.0015
4/2/2019	<0.001						
4/3/2019			<0.001	<0.001	0.00053 (J)	<0.001	
4/4/2019		<0.001					0.0019
9/18/2019	<0.001				0.00039 (J)	<0.001	0.0016
9/19/2019		0.00038 (J)	<0.001	<0.001			
2/5/2020	<0.001	0.00035 (J)	<0.001	<0.001	0.00048 (J)	<0.001	
2/7/2020							0.001
3/17/2020	<0.001						
3/18/2020		<0.001	<0.001	<0.001			0.00088 (J)
3/19/2020					0.00039 (J)	<0.001	
9/22/2020	<0.001						
9/23/2020		<0.001		<0.001			0.00061 (J)
9/24/2020			0.00051 (J)		<0.001	<0.001	
2/2/2021	<0.001						
2/3/2021			<0.001	<0.001			
2/4/2021		<0.001			0.00038 (J)	<0.001	0.00069 (J)
3/10/2021	<0.001						
3/11/2021		0.00031 (J)			0.00035 (J)	<0.001	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.001	<0.001			0.00084 (J)
8/24/2021	<0.001						
8/25/2021			<0.001	<0.001	<0.001	<0.001	
8/26/2021		<0.001					0.0012
3/3/2022	<0.001	<0.001	<0.001		<0.001	<0.001	0.00057 (J)
3/4/2022				0.00037 (J)			
8/16/2022	<0.001		<0.001				
8/17/2022							0.00052 (J)
8/18/2022				<0.001	0.00034 (J)		
8/19/2022		<0.001				<0.001	
2/14/2023	<0.001						
2/15/2023							<0.001
2/16/2023		<0.001	<0.001	<0.001	<0.001	<0.001	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.001	<0.001					
7/19/2016	0.0009 (J)						
7/20/2016		0.00058 (J)					
9/14/2016	0.0014	<0.001					
11/10/2016	0.0021	0.00082 (J)					
11/11/2016			<0.001				
1/20/2017		<0.001					
1/24/2017	0.0015						
2/6/2017			<0.001				
3/14/2017		<0.001					
3/15/2017	0.0014		<0.001				
4/11/2017			<0.001				
4/25/2017	0.0014	0.00095 (J)					
4/26/2017			<0.001				
6/7/2017			<0.001				
7/11/2017			<0.001				
8/9/2017	0.0013	<0.001					
8/10/2017			<0.001				
3/29/2018	0.0014		<0.001				
3/30/2018		<0.001					
6/14/2018	<0.001	0.00076 (J)	<0.001				
10/4/2018	0.0013	0.00088 (J)	<0.001				
2/26/2019		0.0005 (J)					
2/27/2019	0.00046 (J)						
2/28/2019			<0.001				
4/2/2019			<0.001				
4/4/2019	<0.001	<0.001					
9/18/2019	<0.001	<0.001	<0.001				
2/7/2020	<0.001	0.00075 (J)	<0.001				
3/18/2020	<0.001	0.00054 (J)					
5/4/2020			<0.001				
9/23/2020	<0.001	0.00067 (J)	<0.001				
2/3/2021			<0.001				
2/4/2021	<0.001	0.00035 (J)					
3/11/2021	<0.001	<0.001	<0.001				
8/25/2021	<0.001	<0.001					
8/26/2021			<0.001	0.00031 (J)	0.00057 (J)	<0.001	<0.001
1/11/2022					0.00036 (J)	<0.001	<0.001
1/12/2022				0.00052 (J)			
3/3/2022	<0.001		<0.001		0.00053 (J)		
3/4/2022		<0.001		0.00078 (J)		0.00046 (J)	<0.001
6/6/2022					0.00083 (J)		<0.001
6/7/2022				0.00033 (J)		0.00029 (J)	
8/16/2022		<0.001			0.00028 (J)		
8/17/2022	<0.001		<0.001				<0.001
8/18/2022				<0.001			
8/19/2022						<0.001	
2/15/2023	<0.001					<0.001	<0.001
2/16/2023		<0.001	<0.001	<0.001	<0.001		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			<0.001	<0.001		
7/20/2016			0.00055 (J)	0.00078 (J)		
9/14/2016				<0.001		
9/15/2016			<0.001			
11/14/2016			<0.001			
2/6/2017			<0.001			
2/9/2017				0.0017		
3/15/2017			<0.001	0.00047 (J)		
4/11/2017				<0.001		
4/26/2017			<0.001	<0.001		
8/10/2017			<0.001	<0.001		
3/29/2018			<0.001	<0.001		
6/14/2018			<0.001	<0.001		
10/4/2018			0.0015	<0.001		
2/27/2019			0.00047 (J)			
2/28/2019				<0.001		
4/3/2019			<0.001	<0.001		
9/19/2019			0.00032 (J)	<0.001		
2/5/2020				<0.001		
2/7/2020			0.0011			
3/19/2020			0.00071 (J)	<0.001		
9/22/2020			0.0011			
9/23/2020				<0.001		
2/3/2021			0.0013			
2/4/2021				<0.001		
3/11/2021			0.0009 (J)			
3/12/2021				<0.001		
8/26/2021	0.0033	<0.001	0.0013	<0.001		
1/11/2022	0.0017	<0.001				
3/3/2022	0.0029		0.0014	<0.001		
3/4/2022		<0.001				
6/6/2022	0.00054 (J)					
6/7/2022		<0.001				
8/16/2022			0.00097 (J)			
8/17/2022		<0.001		<0.001		
8/18/2022	0.00028 (J)					
10/19/2022					<0.001	<0.001
2/15/2023	<0.001	<0.001		<0.001		
2/16/2023			<0.001		<0.001	<0.001

Time Series

Constituent: Barium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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)
8/23/2021			0.023				
8/24/2021	0.049				0.0055 (J)	0.028	0.0074 (J)
8/25/2021		0.015		0.014			
2/28/2022					0.0053 (J)		
3/1/2022	0.047		0.02	0.014		0.017	0.0071 (J)
3/3/2022		0.013					
8/15/2022	0.045		0.022			0.029	0.0069 (J)
8/16/2022		0.012		0.014	0.0062 (J)		

Time Series

Constituent: Barium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
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)
2/14/2023	0.05	0.013	0.022	0.015		0.018	0.0078 (J)
2/15/2023					0.0058 (J)		

Time Series

Constituent: Barium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.0114	0.0391					0.0206
5/19/2016			0.031	0.0214	0.055		
7/19/2016	0.012						0.019
7/20/2016		0.028	0.029	0.019	0.039		
9/13/2016	0.011						
9/14/2016		0.035	0.031	0.02	0.04		0.02
11/10/2016	0.016				0.04		0.02
11/11/2016		0.042	0.034	0.022			
1/18/2017	0.013						
1/24/2017							0.017
1/27/2017			0.042	0.023	0.042		
2/6/2017		0.041					
2/8/2017						0.037	
2/23/2017						0.051	
3/14/2017	0.01						0.018
3/15/2017		0.04	0.032	0.024	0.058		
3/17/2017						0.046	
4/11/2017						0.055	
4/25/2017	0.012						0.018
4/26/2017		0.039	0.03	0.004	0.054	0.042	
5/17/2017						0.052	
6/7/2017						0.06	
7/11/2017						0.038	
8/8/2017	0.012						
8/9/2017					0.055		0.02
8/10/2017		0.038	0.03	0.017			
3/28/2018	0.01						
3/29/2018			0.028	0.017	0.061	0.028	
3/30/2018		0.042					0.021
6/14/2018	0.012	0.038	0.03	0.015	0.055	0.023	0.022
10/3/2018	0.011						0.024
10/4/2018		0.04	0.035	0.017	0.046	0.036	
2/26/2019	0.013						
2/27/2019		0.04	0.04	0.016	0.054	0.028	0.023
4/2/2019	0.011						
4/3/2019			0.035	0.015	0.056	0.026	
4/4/2019		0.04					0.022
9/18/2019	0.012				0.062	0.025	0.026
9/19/2019		0.038	0.033	0.016			
2/5/2020	0.012	0.061	0.047	0.016	0.052	0.077	
2/7/2020							0.022
3/17/2020	0.012						
3/18/2020		0.035	0.038	0.016			0.021
3/19/2020					0.072	0.031	
9/22/2020	0.013						
9/23/2020		0.035		0.016			0.027
9/24/2020			0.061		0.038	0.034	
2/2/2021	0.012						
2/3/2021			0.039	0.015			
2/4/2021		0.035			0.047	0.029	0.028
3/10/2021	0.011						
3/11/2021		0.033			0.049	0.032	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.045	0.017			0.028
8/24/2021	0.012						
8/25/2021			0.04	0.016	0.046	0.03	
8/26/2021		0.032					0.029
3/3/2022	0.012	0.033	0.04		0.045	0.029	0.029
3/4/2022				0.016			
8/16/2022	0.011		0.038				
8/17/2022							0.027
8/18/2022				0.014	0.041		
8/19/2022		0.03				0.026	
2/14/2023	0.011						
2/15/2023							0.029
2/16/2023		0.032	0.041	0.014	0.037	0.028	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.0715	0.0219					
7/19/2016	0.069						
7/20/2016		0.019					
9/14/2016	0.066	0.017					
11/10/2016	0.069	0.02					
11/11/2016			0.0022 (J)				
1/20/2017		0.018					
1/24/2017	0.068						
2/6/2017			0.0018 (J)				
3/14/2017		0.019					
3/15/2017	0.065		0.0015 (J)				
4/11/2017			0.0014 (J)				
4/25/2017	0.057	0.023					
4/26/2017			0.0014 (J)				
6/7/2017			0.0014 (J)				
7/11/2017			0.0013 (J)				
8/9/2017	0.069	0.017					
8/10/2017			0.0012 (J)				
3/29/2018	0.05		0.00097 (J)				
3/30/2018		0.015					
6/14/2018	0.046	0.013	0.0011 (J)				
10/4/2018	0.046	0.013	0.0012 (J)				
2/26/2019		0.012					
2/27/2019	0.028						
2/28/2019			<0.01				
4/2/2019			0.0013 (J)				
4/4/2019	0.027	0.011					
9/18/2019	0.032	0.011	<0.01				
2/7/2020	0.034	0.011	0.0065 (J)				
3/18/2020	0.034	0.012					
5/4/2020			<0.01				
9/23/2020	0.037	0.012	<0.01				
2/3/2021			<0.01				
2/4/2021	0.039	0.012					
3/11/2021	0.037	0.011	<0.01				
8/25/2021	0.035	0.011					
8/26/2021			<0.01	<0.01	0.0086 (J)	0.031	0.0078 (J)
1/11/2022					0.0076 (J)	0.04	0.0072 (J)
1/12/2022				<0.01			
3/3/2022	0.041		<0.01		0.0068 (J)		
3/4/2022		0.011		<0.01		0.038	0.0081 (J)
6/6/2022					0.0079 (J)		0.0097 (J)
6/7/2022				<0.01		0.025	
8/16/2022		0.011			0.0039 (J)		
8/17/2022	0.032		0.0012 (J)				0.0089 (J)
8/18/2022				0.00091 (J)			
8/19/2022						0.023	
2/15/2023	0.044					0.033	0.0055 (J)
2/16/2023		0.01	0.00096 (J)	<0.01	0.0053 (J)		

Time Series

Constituent: Barium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			0.0026	<0.01		
7/20/2016			0.0017 (J)	0.0014 (J)		
9/14/2016				0.00092 (J)		
9/15/2016			0.0039			
11/14/2016			0.00085 (J)			
2/6/2017			0.0011 (J)			
2/9/2017				0.0015 (J)		
3/15/2017			0.0013 (J)	0.00054 (J)		
4/11/2017				0.0007 (J)		
4/26/2017			0.00098 (J)	<0.01		
8/10/2017			0.0025	0.00053 (J)		
3/29/2018			0.00085 (J)	<0.01		
6/14/2018			0.0028	0.00088 (J)		
10/4/2018			0.0017 (J)	0.00076 (J)		
2/27/2019			<0.01			
2/28/2019				0.0023 (J)		
4/3/2019			0.001 (J)	<0.01		
9/19/2019			<0.01	0.0018 (J)		
2/5/2020				0.0022 (J)		
2/7/2020			<0.01			
3/19/2020			<0.01	0.0021 (J)		
9/22/2020			<0.01			
9/23/2020				<0.01		
2/3/2021			<0.01			
2/4/2021				0.0016 (J)		
3/11/2021			<0.01			
3/12/2021				<0.01		
8/26/2021	0.042	0.41	<0.01	<0.01		
1/11/2022	0.029	0.38				
3/3/2022	0.028		<0.01	<0.01		
3/4/2022		0.38				
6/6/2022	0.032					
6/7/2022		0.34				
8/16/2022			0.0014 (J)			
8/17/2022		0.31		<0.01		
8/18/2022	0.041					
10/19/2022					0.0036 (J)	0.0069 (J)
2/15/2023	0.036	0.33		<0.01		
2/16/2023			0.00093 (J)		0.0049 (J)	0.0045 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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
8/23/2021			<0.0025				
8/24/2021	<0.0025				<0.0025	<0.0025	<0.0025
8/25/2021		<0.0025		<0.0025			
2/28/2022					<0.0025		
3/1/2022	<0.0025		<0.0025	<0.0025		<0.0025	<0.0025
3/3/2022		<0.0025					
8/15/2022	<0.0025		<0.0025			<0.0025	<0.0025
8/16/2022		<0.0025		<0.0025	<0.0025		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
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)
2/14/2023	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
2/15/2023					<0.0025		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025	<0.0025					<0.0025
5/19/2016			<0.0025	<0.0025	<0.0025		
7/19/2016	<0.0025						<0.0025
7/20/2016		<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
11/10/2016	<0.0025				<0.0025		<0.0025
11/11/2016		<0.0025	<0.0025	<0.0025			
1/18/2017	<0.0025						
1/24/2017							<0.0025
1/27/2017			<0.0025	<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	<0.0025	<0.0025		
3/17/2017						<0.0025	
4/11/2017						<0.0025	
4/25/2017	<0.0025						<0.0025
4/26/2017		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
5/17/2017						<0.0025	
6/7/2017						<0.0025	
7/11/2017						<0.0025	
8/8/2017	<0.0025						
8/9/2017					<0.0025		<0.0025
8/10/2017		<0.0025	<0.0025	<0.0025			
3/28/2018	<0.0025						
3/29/2018			<0.0025	<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	<0.0025	<0.0025
10/3/2018	<0.0025						<0.0025
10/4/2018		<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	0.00017 (J)	<0.0025
4/2/2019	<0.0025						
4/3/2019			<0.0025	<0.0025	<0.0025	<0.0025	
4/4/2019		<0.0025					<0.0025
9/18/2019	<0.0025				<0.0025	0.00032 (J)	<0.0025
9/19/2019		<0.0025	<0.0025	<0.0025			
2/5/2020	0.00041 (J)	<0.0025	<0.0025	<0.0025	<0.0025	0.00024 (J)	
2/7/2020							<0.0025
3/17/2020	<0.0025						
3/18/2020		<0.0025	<0.0025	<0.0025			<0.0025
3/19/2020					<0.0025	0.00025 (J)	
9/22/2020	<0.0025						
9/23/2020		<0.0025		<0.0025			<0.0025
9/24/2020			<0.0025		<0.0025	0.00024 (J)	
2/2/2021	<0.0025						
2/3/2021			<0.0025	<0.0025			
2/4/2021		<0.0025			<0.0025	0.00026 (J)	<0.0025
3/10/2021	<0.0025						
3/11/2021		<0.0025			<0.0025	<0.0025	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.0025	<0.0025			<0.0025
8/24/2021	<0.0025						
8/25/2021			<0.0025	<0.0025	<0.0025	<0.0025	
8/26/2021		<0.0025					<0.0025
3/3/2022	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
3/4/2022				<0.0025			
8/16/2022	<0.0025		<0.0025				
8/17/2022							<0.0025
8/18/2022				<0.0025	<0.0025		
8/19/2022		<0.0025				<0.0025	
2/14/2023	<0.0025						
2/15/2023							<0.0025
2/16/2023		<0.0025	<0.0025	<0.0025	<0.0025	0.00031 (J)	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.0025	<0.0025					
7/19/2016	<0.0025						
7/20/2016		<0.0025					
9/14/2016	<0.0025	<0.0025					
11/10/2016	<0.0025	<0.0025					
11/11/2016			<0.0025				
1/20/2017		<0.0025					
1/24/2017	<0.0025						
2/6/2017			<0.0025				
3/14/2017		<0.0025					
3/15/2017	<0.0025		<0.0025				
4/11/2017			<0.0025				
4/25/2017	<0.0025	<0.0025					
4/26/2017			<0.0025				
6/7/2017			<0.0025				
7/11/2017			<0.0025				
8/9/2017	<0.0025	<0.0025					
8/10/2017			<0.0025				
3/29/2018	<0.0025		<0.0025				
3/30/2018		<0.0025					
6/14/2018	<0.0025	<0.0025	<0.0025				
10/4/2018	<0.0025	<0.0025	<0.0025				
2/26/2019		<0.0025					
2/27/2019	0.00022 (J)						
2/28/2019			<0.0025				
4/2/2019			<0.0025				
4/4/2019	<0.0025	<0.0025					
9/18/2019	<0.0025	<0.0025	<0.0025				
2/7/2020	<0.0025	<0.0025	<0.0025				
3/18/2020	<0.0025	<0.0025					
5/4/2020			<0.0025				
9/23/2020	<0.0025	<0.0025	<0.0025				
2/3/2021			<0.0025				
2/4/2021	<0.0025	<0.0025					
3/11/2021	<0.0025	<0.0025	<0.0025				
8/25/2021	<0.0025	<0.0025					
8/26/2021			<0.0025	0.0081	<0.0025	0.00053 (J)	0.00089 (J)
1/11/2022					<0.0025	0.00057 (J)	0.0012 (J)
1/12/2022				0.012			
3/3/2022	<0.0025		<0.0025		<0.0025		
3/4/2022		<0.0025		0.01		0.00066 (J)	0.00097 (J)
6/6/2022					<0.0025		0.0011 (J)
6/7/2022				0.0089		0.00055 (J)	
8/16/2022		<0.0025			0.00022 (J)		
8/17/2022	<0.0025		<0.0025				0.00078 (J)
8/18/2022				0.0081			
8/19/2022						0.00063 (J)	
2/15/2023	<0.0025					0.00067 (J)	0.0012 (J)
2/16/2023		<0.0025	<0.0025	0.011	<0.0025		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			0.00102 (J)	<0.0025		
7/20/2016			0.0014 (J)	<0.0025		
9/14/2016				<0.0025		
9/15/2016			0.00093 (J)			
11/14/2016			0.0014 (J)			
2/6/2017			0.0017 (J)			
2/9/2017				0.00041 (J)		
3/15/2017			0.0016 (J)	<0.0025		
4/11/2017				<0.0025		
4/26/2017			0.0017 (J)	<0.0025		
8/10/2017			0.0017 (J)	0.00034 (J)		
3/29/2018			0.0018 (J)	<0.0025		
6/14/2018			0.0015 (J)	<0.0025		
10/4/2018			0.0019 (J)	0.00036 (J)		
2/27/2019			0.0021 (J)			
2/28/2019				0.00031 (J)		
4/3/2019			0.0019 (J)	<0.0025		
9/19/2019			0.0019	0.00041 (J)		
2/5/2020				0.0004 (J)		
2/7/2020			0.0023			
3/19/2020			0.0028	0.00056 (J)		
9/22/2020			0.0025			
9/23/2020				0.00034 (J)		
2/3/2021			0.0025			
2/4/2021				0.00039 (J)		
3/11/2021			0.0022 (J)			
3/12/2021				0.00034 (J)		
8/26/2021	0.014	0.00028 (J)	0.002 (J)	0.00038 (J)		
1/11/2022	0.014	0.0002 (J)				
3/3/2022	0.01		0.0027	0.00036 (J)		
3/4/2022		<0.0025				
6/6/2022	0.0062					
6/7/2022		0.0003 (J)				
8/16/2022			0.0018 (J)			
8/17/2022		0.00022 (J)		0.00033 (J)		
8/18/2022	0.0044					
10/19/2022				0.00054 (J)	0.004	
2/15/2023	0.0099	0.00026 (J)		0.00044 (J)		
2/16/2023			0.0025	0.00046 (J)	0.0079	

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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
8/23/2021			<0.08				
8/24/2021	<0.08				<0.08	<0.08	<0.08
8/25/2021		0.1		<0.08			
2/28/2022					<0.08		
3/1/2022	<0.08		<0.08	<0.08		<0.08	<0.08
3/3/2022		0.1					
8/15/2022	<0.08		0.066 (J)			<0.08	<0.08
8/16/2022		<0.08		<0.08	<0.08		
2/14/2023	0.026 (J)	<0.08	0.023 (J)	<0.08		0.03 (J)	<0.08
2/15/2023					<0.08		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.08	<0.08					<0.08
5/19/2016			<0.08	<0.08	0.0252 (J)		
7/19/2016	<0.08						<0.08
7/20/2016		<0.08	<0.08	<0.08	<0.08		
9/13/2016	<0.08						
9/14/2016		<0.08	<0.08	<0.08	<0.08		<0.08
11/10/2016	<0.08				<0.08		<0.08
11/11/2016		<0.08	<0.08	<0.08			
1/18/2017	<0.08						
1/24/2017							<0.08
1/27/2017			0.021 (J)	0.047 (J)	0.033 (J)		
2/6/2017		<0.08					
2/8/2017						<0.08	
2/23/2017						<0.08	
3/14/2017	<0.08						<0.08
3/15/2017		0.032 (J)	0.058	0.024 (J)	<0.08		
3/17/2017						<0.08	
4/11/2017						<0.08	
4/25/2017	<0.08						<0.08
4/26/2017		<0.08	<0.08	<0.08	<0.08	<0.08	
5/17/2017						<0.08	
6/7/2017						<0.08	
7/11/2017						<0.08	
8/8/2017	<0.08						
8/9/2017					<0.08		<0.08
8/10/2017		<0.08	<0.08	<0.08			
10/11/2017	<0.08					<0.08	<0.08
10/12/2017		<0.08	<0.08	<0.08	<0.08		
6/14/2018	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
10/3/2018	<0.08						<0.08
10/4/2018		<0.08	<0.08	<0.08	<0.08	<0.08	
4/2/2019	<0.08						
4/3/2019			<0.08	<0.08	<0.08	<0.08	
4/4/2019		0.024 (J)					<0.08
9/18/2019	<0.08				<0.08	<0.08	<0.08
9/19/2019		<0.08	<0.08	<0.08			
3/17/2020	<0.08						
3/18/2020		0.049 (J)	<0.08	0.039 (J)			0.071 (J)
3/19/2020					0.053 (J)	0.039 (J)	
9/22/2020	<0.08						
9/23/2020		<0.08		<0.08			<0.08
9/24/2020			<0.08		<0.08	<0.08	
3/10/2021	<0.08						
3/11/2021		<0.08			<0.08	<0.08	
3/12/2021			<0.08	<0.08			<0.08
8/24/2021	<0.08						
8/25/2021			<0.08	<0.08	0.063 (J)	0.043 (J)	
8/26/2021		<0.08					<0.08
3/3/2022	<0.08	<0.08	<0.08		<0.08	<0.08	<0.08
3/4/2022				<0.08			
8/16/2022	<0.08		<0.08				
8/17/2022							<0.08

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/18/2022				<0.08	<0.08		
8/19/2022		<0.08				<0.08	
2/14/2023	0.033 (J)						
2/15/2023							<0.08
2/16/2023		0.04 (J)	<0.08	0.024 (J)	0.033 (J)	0.03 (J)	

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	4.48	<0.08					
7/19/2016	4.7						
7/20/2016		<0.08					
9/14/2016	5.8	<0.08					
11/10/2016	6.7	<0.08					
11/11/2016			<0.08				
1/20/2017		<0.08					
1/24/2017	6.3						
2/6/2017			<0.08				
3/14/2017		<0.08					
3/15/2017	5.9		0.034 (J)				
4/11/2017			<0.08				
4/25/2017	6.2	<0.08					
4/26/2017			<0.08				
6/7/2017			<0.08				
7/11/2017			<0.08				
8/9/2017	6.3	<0.08					
8/10/2017			<0.08				
10/11/2017	6.8	<0.08					
10/12/2017			<0.08				
6/14/2018	5.4	<0.08	<0.08				
10/4/2018	5.5	<0.08	<0.08				
4/2/2019			<0.08				
4/4/2019	3.2	0.049 (J)					
9/18/2019	2.1	<0.08	<0.08				
3/18/2020	2	0.049 (J)					
5/4/2020			<0.08				
9/23/2020	1.5	<0.08	<0.08				
3/8/2021				1.3			
3/9/2021					0.19	0.33	0.073 (J)
3/11/2021	1.1	<0.08	<0.08				
4/7/2021					0.13		<0.08
4/8/2021				0.98		0.21	
8/25/2021	0.89	<0.08					
8/26/2021			<0.08	2.1	0.087	0.36	0.052 (J)
1/11/2022					0.12	0.39	0.048 (J)
1/12/2022				4.9			
3/3/2022	0.79		<0.08		0.12		
3/4/2022		<0.08		4.3		0.41	<0.08
6/6/2022					0.13		<0.08
6/7/2022				2.8		0.39	
8/16/2022		<0.08			0.099		
8/17/2022	0.73		<0.08				<0.08
8/18/2022				2.2			
8/19/2022						0.33	
2/15/2023	0.86					0.39	0.049 (J)
2/16/2023		<0.08	<0.08	3.5	0.14		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			1.42	0.314		
7/20/2016			1.4	0.25		
9/14/2016				0.3		
9/15/2016			1.2			
11/14/2016			1.3			
2/6/2017			1.8			
2/9/2017				0.61		
3/15/2017			1.7	0.42		
4/11/2017				0.37		
4/26/2017			2	0.38		
8/10/2017			1.8	0.29		
10/12/2017			1.8	0.36		
6/14/2018			1.7	0.39		
10/4/2018			1.9	0.37		
4/3/2019			1.7	0.35		
9/19/2019			1.7	0.39		
3/19/2020			2.2	0.55		
9/22/2020			2.5			
9/23/2020				0.68		
3/8/2021		0.48				
3/9/2021	1.8					
3/11/2021			2.4			
3/12/2021				0.64		
4/7/2021	1.9					
4/8/2021		0.43				
8/26/2021	2.1	0.7	2.4	0.56		
1/11/2022	1.7	0.87				
3/3/2022	1.6		2.7	0.62		
3/4/2022		0.72				
6/6/2022	0.64					
6/7/2022		0.78				
8/16/2022			2.3			
8/17/2022		0.82		0.55		
8/18/2022	0.44					
10/19/2022					0.098	2.9
2/15/2023	1.4	0.89		0.69		
2/16/2023			2.8		0.22	3.9

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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
2/28/2022					<0.0025		
3/1/2022	<0.0025		<0.0025	<0.0025		<0.0025	<0.0025
3/3/2022		<0.0025					
8/15/2022	<0.0025		<0.0025			<0.0025	<0.0025
8/16/2022		<0.0025		<0.0025	<0.0025		
2/14/2023	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
2/15/2023					<0.0025		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025	<0.0025					<0.0025
5/19/2016			<0.0025	<0.0025	<0.0025		
7/19/2016	<0.0025						<0.0025
7/20/2016		<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
11/10/2016	<0.0025				<0.0025		<0.0025
11/11/2016		<0.0025	<0.0025	<0.0025			
1/18/2017	<0.0025						
1/24/2017							<0.0025
1/27/2017			<0.0025	<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	<0.0025	<0.0025		
3/17/2017						<0.0025	
4/11/2017						<0.0025	
4/25/2017	<0.0025						<0.0025
4/26/2017		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
5/17/2017						<0.0025	
6/7/2017						<0.0025	
7/11/2017						<0.0025	
8/8/2017	<0.0025						
8/9/2017					<0.0025		<0.0025
8/10/2017		<0.0025	<0.0025	<0.0025			
3/28/2018	<0.0025						
3/29/2018			<0.0025	<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	<0.0025	<0.0025
10/3/2018	<0.0025						<0.0025
10/4/2018		<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	<0.0025
4/2/2019	<0.0025						
4/3/2019			<0.0025	<0.0025	<0.0025	<0.0025	
4/4/2019		<0.0025					<0.0025
9/18/2019	<0.0025				<0.0025	<0.0025	<0.0025
9/19/2019		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			<0.0025
3/19/2020					<0.0025	<0.0025	
9/22/2020	<0.0025						
9/23/2020		<0.0025		<0.0025			<0.0025
9/24/2020			<0.0025		<0.0025	<0.0025	
2/2/2021	<0.0025						
2/3/2021			<0.0025	<0.0025			
2/4/2021		<0.0025			<0.0025	<0.0025	<0.0025
3/3/2022	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
3/4/2022				<0.0025			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/16/2022	<0.0025		<0.0025				
8/17/2022							<0.0025
8/18/2022				<0.0025	<0.0025		
8/19/2022		<0.0025				<0.0025	
2/14/2023	<0.0025						
2/15/2023							<0.0025
2/16/2023		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.000362 (J)	<0.0025					
7/19/2016	<0.0025						
7/20/2016		<0.0025					
9/14/2016	0.00037 (J)	<0.0025					
11/10/2016	<0.0025	<0.0025					
11/11/2016			<0.0025				
1/20/2017		<0.0025					
1/24/2017	0.00055 (J)						
2/6/2017			<0.0025				
3/14/2017		<0.0025					
3/15/2017	0.00067 (J)		<0.0025				
4/11/2017			<0.0025				
4/25/2017	0.00058 (J)	<0.0025					
4/26/2017			<0.0025				
6/7/2017			<0.0025				
7/11/2017			<0.0025				
8/9/2017	0.00054 (J)	<0.0025					
8/10/2017			<0.0025				
3/29/2018	0.00082 (J)		<0.0025				
3/30/2018		<0.0025					
6/14/2018	0.0007 (J)	<0.0025	<0.0025				
10/4/2018	0.00065 (J)	<0.0025	<0.0025				
2/26/2019		<0.0025					
2/27/2019	0.00055 (J)						
2/28/2019			<0.0025				
4/2/2019			<0.0025				
4/4/2019	0.00047 (J)	<0.0025					
9/18/2019	0.00017 (J)	<0.0025	<0.0025				
2/7/2020	<0.0025	<0.0025	<0.0025				
3/18/2020	0.00022 (J)	<0.0025					
5/4/2020			<0.0025				
9/23/2020	<0.0025	<0.0025	<0.0025				
2/3/2021			<0.0025				
2/4/2021	<0.0025	<0.0025					
8/26/2021				<0.0025	<0.0025	<0.0025	<0.0025
1/11/2022					<0.0025	<0.0025	<0.0025
1/12/2022				0.00026 (J)			
3/3/2022	<0.0025		<0.0025		<0.0025		
3/4/2022		<0.0025		<0.0025		0.00025 (J)	<0.0025
6/6/2022					<0.0025		<0.0025
6/7/2022				<0.0025		<0.0025	
8/16/2022		<0.0025			<0.0025		
8/17/2022	<0.0025		<0.0025				<0.0025
8/18/2022				<0.0025			
8/19/2022						9E-05 (J)	
2/15/2023	8.5E-05 (J)					0.00028 (J)	<0.0025
2/16/2023		<0.0025	<0.0025	0.00057 (J)	<0.0025		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			<0.0025	<0.0025		
7/20/2016			<0.0025	<0.0025		
9/14/2016				<0.0025		
9/15/2016			<0.0025			
11/14/2016			<0.0025			
2/6/2017			<0.0025			
2/9/2017				<0.0025		
3/15/2017			<0.0025	<0.0025		
4/11/2017				<0.0025		
4/26/2017			<0.0025	<0.0025		
8/10/2017			<0.0025	<0.0025		
3/29/2018			<0.0025	<0.0025		
6/14/2018			<0.0025	<0.0025		
10/4/2018			<0.0025	<0.0025		
2/27/2019			<0.0025			
2/28/2019				<0.0025		
4/3/2019			<0.0025	<0.0025		
9/19/2019			<0.0025	<0.0025		
2/5/2020				<0.0025		
2/7/2020			<0.0025			
3/19/2020			<0.0025	<0.0025		
9/22/2020			<0.0025			
9/23/2020				<0.0025		
2/3/2021			<0.0025			
2/4/2021				<0.0025		
8/26/2021	0.00061 (J)	<0.0025				
1/11/2022	0.0004 (J)	<0.0025				
3/3/2022	0.0003 (J)		<0.0025	<0.0025		
3/4/2022		<0.0025				
6/6/2022	0.0003 (J)					
6/7/2022		<0.0025				
8/16/2022			<0.0025			
8/17/2022		0.00012 (J)		<0.0025		
8/18/2022	0.00015 (J)					
10/19/2022					<0.0025	0.00014 (J)
2/15/2023	0.00057 (J)	0.0001 (J)		<0.0025		
2/16/2023			0.00065 (J)		8E-05 (J)	0.00018 (J)

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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
8/23/2021			13				
8/24/2021	1.2				15	47	26
8/25/2021		16		1.7			
2/28/2022					14		
3/1/2022	1.1		13	1.6		2.1	22
3/3/2022		6.1					
8/15/2022	1.2		12			51	24
8/16/2022		8.8		1.8	16		
2/14/2023	1.4	5.7	12	2		1.3	29
2/15/2023					18		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	1.36	7.17					32.5
5/19/2016			1.95	15.8	11.4		
7/19/2016	0.88						30
7/20/2016		7	1.5	14	7.1		
9/13/2016	0.93						
9/14/2016		7.7	1.8	16	7.4		37
11/10/2016	6.1				6.4		29
11/11/2016		8.2	1.7	15			
1/18/2017	10						
1/24/2017							28
1/27/2017			3.5	16	6.2		
2/6/2017		9.1					
2/8/2017						3.2	
2/23/2017						4.1	
3/14/2017	1.3						29
3/15/2017		9	3.8	16	6.7		
3/17/2017						2.4	
4/11/2017						4.1	
4/25/2017	1.9						32
4/26/2017		8.1	4	3	6.5	2.5	
5/17/2017						5.2	
6/7/2017						5.2	
7/11/2017						2.3	
8/8/2017	4.8						
8/9/2017					7		30
8/10/2017		8.1	3.5	15			
10/11/2017	0.93					3.8	31
10/12/2017		8.6	2.7	16	7		
6/14/2018	0.94	7.7	2.2	13	5.5	1.1	29
10/3/2018	1.2						31
10/4/2018		8.5	2	15	5.9	2	
4/2/2019	1.1						
4/3/2019			1.7	14	4.7	0.84	
4/4/2019		7.9					30
9/18/2019	1.5				4.9	0.85	31
9/19/2019		7.5	1.4	14			
3/17/2020	0.82						
3/18/2020		7.5	1.6	14			30
3/19/2020					5	0.89	
9/22/2020	0.89						
9/23/2020		7.7		13			32
9/24/2020			5.2		1.4	0.99	
3/10/2021	0.89						
3/11/2021		7.9			4	0.79	
3/12/2021			1.6	15			31
8/24/2021	1.7						
8/25/2021			1.5	14	4	0.7	
8/26/2021		7.6					31
3/3/2022	1.4	7.1	1.3		3.4	0.65	28
3/4/2022				12			
8/16/2022	0.94		1.6				
8/17/2022							29

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/18/2022				13	3.5		
8/19/2022		7.3				0.64	
2/14/2023	1.3						
2/15/2023							31
2/16/2023		6.9	1.7	12	3.8	0.69	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	168	8.24					
7/19/2016	190						
7/20/2016		11					
9/14/2016	230	12					
11/10/2016	240	11					
11/11/2016			12				
1/20/2017		10					
1/24/2017	280						
2/6/2017			11				
3/14/2017		8.8					
3/15/2017	260		10				
4/11/2017			11				
4/25/2017	300	12					
4/26/2017			8.4				
6/7/2017			9				
7/11/2017			9.5				
8/9/2017	350	11					
8/10/2017			8.8				
10/11/2017	360	10					
10/12/2017			9.5				
6/14/2018	260	6.2	8.9				
10/4/2018	250	6.4	10				
4/2/2019			11				
4/4/2019	110	5.6					
9/18/2019	62	5.5	8.8				
3/18/2020	66	6.3					
5/4/2020			15				
9/23/2020	43	5.9	13				
3/8/2021				90			
3/9/2021					66	15	3.2
3/11/2021	32	5.7	15				
4/7/2021					67		2.7
4/8/2021				88		14	
8/25/2021	27	6					
8/26/2021			10	120	51	24	4.6
1/11/2022					57	32	3.1
1/12/2022				220			
3/3/2022	24		12		54		
3/4/2022		5.3		200		31	4
6/6/2022					58		4.5
6/7/2022				140		19	
8/16/2022		5.6			55		
8/17/2022	20		9.8				4.6
8/18/2022				110			
8/19/2022						18	
2/15/2023	26					26	2.4
2/16/2023		6	13	190	68		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			31.4	8.53		
7/20/2016			28	8.2		
9/14/2016				8.8		
9/15/2016			27			
11/14/2016			32			
2/6/2017			41			
2/9/2017				10		
3/15/2017			38	8.6		
4/11/2017				8.6		
4/26/2017			39	7.1		
8/10/2017			53	7.5		
10/12/2017			60	8.2		
6/14/2018			52	7.5		
10/4/2018			65	8		
4/3/2019			61	7.2		
9/19/2019			57	8.1		
3/19/2020			79	9.3		
9/22/2020			81			
9/23/2020				10		
3/8/2021		14				
3/9/2021	65					
3/11/2021			83			
3/12/2021				11		
4/7/2021	71					
4/8/2021		16				
8/26/2021	69	16	85	9.3		
1/11/2022	51	16				
3/3/2022	42		88	8.6		
3/4/2022		16				
6/6/2022	22					
6/7/2022		15				
8/16/2022			83			
8/17/2022		15		9		
8/18/2022	16					
10/19/2022					5.9	130
2/15/2023	39	18		11		
2/16/2023			92		19	180

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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
8/23/2021			3.3				
8/24/2021	5.1				1.5	2.1	1.8
8/25/2021		2.3		1.9			
2/28/2022					1.2		
3/1/2022	4.1		2.7	1.8		1.5	1.5
3/3/2022		2					
8/15/2022	4		2.7			1.5	1.5
8/16/2022		1.9		1.6	1.2		
2/14/2023	3.9	1.9	2.6	1.6		1.3	1.5
2/15/2023					1.2		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	2.06	1.45					4.59
5/19/2016			3.21	3.8	2.26		
7/19/2016	2.1						5.9
7/20/2016		1.6	3.4	3.8	1.9		
9/13/2016	2						
9/14/2016		1.5	3.1	3.7	1.6		7.9
11/10/2016	1.8				1.4		6.5
11/11/2016		1.5	3.2	3.5			
1/18/2017	1.8						
1/24/2017							4.1
1/27/2017			3.4	3.1	1.4		
2/6/2017		1.4					
2/8/2017						2.5	
2/23/2017						4.3	
3/14/2017	1.8						4.4
3/15/2017		1.4	3.1	3.2	1.4		
3/17/2017						4.8	
4/11/2017						3.8	
4/25/2017	1.8						4
4/26/2017		1.3	3.1	3.2	1.3	4.8	
5/17/2017						3.9	
6/7/2017						3.2	
7/11/2017						4.1	
8/8/2017	1.9						
8/9/2017					1.4		3.6
8/10/2017		1.4	3.1	3.4			
10/11/2017	1.8					2.2	5
10/12/2017		1.3	3	3.1	1.2		
6/14/2018	1.7	1.3	3	3	1.2	2.8	4.3
10/3/2018	1.8						4.8
10/4/2018		1.3	3.1	3.1	1.2	2.2	
4/2/2019	1.9						
4/3/2019			3.3	3	1.2	2.4	
4/4/2019		1.4					3.7
9/18/2019	2				1.2	2.2	3.2
9/19/2019		1.5	3.2	3.2			
3/17/2020	2.2						
3/18/2020		1.5	3.2	3.2			1.7
3/19/2020					1.3	1.9	
9/22/2020	1.8						
9/23/2020		1.3		2.8			1.5
9/24/2020			1		1.6	3.1	
3/10/2021	1.9						
3/11/2021		1.7			1.2	2.6	
3/12/2021			3.6	3.5			1.6
8/24/2021	1.9						
8/25/2021			3.5	3.7	1.2	2.8	
8/26/2021		1.6					1.4
3/3/2022	2.1	1.6	3.6		1	2.4	1.4
3/4/2022				3.2			
8/16/2022	1.9		3.5				
8/17/2022							1.2

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/18/2022				3	0.98 (J)		
8/19/2022		1.4				2.1	
2/14/2023	1.8						
2/15/2023							1
2/16/2023		1.3	3.3	2.9	0.97 (J)	1.9	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	217	2.72					
7/19/2016	250						
7/20/2016		1.9					
9/14/2016	260	1.6					
11/10/2016	290	1.6					
11/11/2016			2.6				
1/20/2017		1.5					
1/24/2017	310						
2/6/2017			2.6				
3/14/2017		1.5					
3/15/2017	330		2.4				
4/11/2017			2.3				
4/25/2017	330	1.8					
4/26/2017			2.3				
6/7/2017			2.5				
7/11/2017			2.3				
8/9/2017	330	1.4					
8/10/2017			2.5				
10/11/2017	320	1.5					
10/12/2017			2.3				
6/14/2018	290	1.5	2.4				
10/4/2018	290	1.5	2.6				
4/2/2019			2.5				
4/4/2019	170	1.4					
9/18/2019	100	1.5	2.7				
3/18/2020	93	1.5					
5/4/2020			2.8				
9/23/2020	58	1.2	2.6				
3/8/2021				70			
3/9/2021					58	2.9	3.5
3/11/2021	49	1.3	2.9				
4/7/2021					50		3.7
4/8/2021				57		2.4	
8/25/2021	45	1.6					
8/26/2021			3.3	130	47	4.2	3.3
1/11/2022					44	5.1	2.9
1/12/2022				350			
3/3/2022	42		3.2		45		
3/4/2022		1.3		330		5.3	2.9
6/6/2022					48		3.1
6/7/2022				180		4.3	
8/16/2022		1.3			41		
8/17/2022	35		2.8				3.2
8/18/2022				140			
8/19/2022						4.2	
2/15/2023	42					4.6	2.9
2/16/2023		1.2	2.6	230	51		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			17.5	1.46		
7/20/2016			19	1.5		
9/14/2016				1.4		
9/15/2016			19			
11/14/2016			25			
2/6/2017			33			
2/9/2017				1.5		
3/15/2017			38	1.3		
4/11/2017				1.2		
4/26/2017			42	1.2		
8/10/2017			48	1.3		
10/12/2017			60	1.4		
6/14/2018			58	1.2		
10/4/2018			300	1.2		
4/3/2019			70	2		
9/19/2019			70	1.5		
3/19/2020			98	2.1		
9/22/2020			100			
9/23/2020				2.4		
3/8/2021		74				
3/9/2021	110					
3/11/2021			110			
3/12/2021				3.4		
4/7/2021	110					
4/8/2021		77				
8/26/2021	100	79	110	3.1		
1/11/2022	60	75				
3/3/2022	50		130	3.5		
3/4/2022		79				
6/6/2022	41					
6/7/2022		79				
8/16/2022			110			
8/17/2022		77		3.2		
8/18/2022	27					
10/19/2022					5	200
2/15/2023	39	79		3.9		
2/16/2023			120		22	280

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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
8/23/2021			<0.002				
8/24/2021	<0.002				<0.002	<0.002	<0.002
8/25/2021		<0.002		<0.002			
2/28/2022					<0.002		
3/1/2022	<0.002		<0.002	<0.002		<0.002	<0.002
3/3/2022		<0.002					
8/15/2022	0.0063		<0.002			<0.002	<0.002
8/16/2022		<0.002		<0.002	<0.002		

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
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)
2/14/2023	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
2/15/2023					<0.002		

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.002	<0.002					<0.002
5/19/2016			<0.002	<0.002	<0.002		
7/19/2016	<0.002						<0.002
7/20/2016		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
11/10/2016	<0.002				<0.002		<0.002
11/11/2016		0.0015 (J)	<0.002	<0.002			
1/18/2017	<0.002						
1/24/2017							<0.002
1/27/2017			<0.002	<0.002	<0.002		
2/6/2017		0.0011 (J)					
2/8/2017						<0.002	
2/23/2017						<0.002	
3/14/2017	<0.002						<0.002
3/15/2017		0.0015 (J)	<0.002	<0.002	<0.002		
3/17/2017						<0.002	
4/11/2017						<0.002	
4/25/2017	<0.002						<0.002
4/26/2017		0.0013 (J)	0.0011 (J)	<0.002	<0.002	<0.002	
5/17/2017						<0.002	
6/7/2017						<0.002	
7/11/2017						<0.002	
8/8/2017	<0.002						
8/9/2017					<0.002		<0.002
8/10/2017		0.0016 (J)	<0.002	<0.002			
3/28/2018	<0.002						
3/29/2018			0.0012 (J)	<0.002	<0.002	<0.002	
3/30/2018		0.0027					<0.002
6/14/2018	<0.002	0.0023 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
10/3/2018	<0.002						<0.002
10/4/2018		0.0031	<0.002	<0.002	<0.002	<0.002	
2/26/2019	<0.002						
2/27/2019		0.0031	0.0021 (J)	<0.002	0.0018 (J)	<0.002	0.0015 (J)
4/2/2019	<0.002						
4/3/2019			<0.002	<0.002	<0.002	<0.002	
4/4/2019		0.0021 (J)					<0.002
9/18/2019	<0.002				<0.002	<0.002	<0.002
9/19/2019		0.0022	<0.002	<0.002			
2/5/2020	<0.002	0.0022	<0.002	<0.002	<0.002	0.0017 (J)	
2/7/2020							<0.002
3/17/2020	<0.002						
3/18/2020		<0.002	<0.002	<0.002			<0.002
3/19/2020					<0.002	<0.002	
9/22/2020	<0.002						
9/23/2020		0.0018 (J)		<0.002			<0.002
9/24/2020			<0.002		<0.002	<0.002	
2/2/2021	<0.002						
2/3/2021			<0.002	<0.002			
2/4/2021		0.0018 (J)			<0.002	<0.002	<0.002
3/10/2021	<0.002						
3/11/2021		0.0023			0.0019 (J)	<0.002	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.0017 (J)	<0.002			<0.002
8/24/2021	<0.002						
8/25/2021			<0.002	<0.002	0.0017 (J)	<0.002	
8/26/2021		0.0024					<0.002
3/3/2022	<0.002	0.0023	<0.002		<0.002	<0.002	<0.002
3/4/2022				<0.002			
8/16/2022	<0.002		<0.002				
8/17/2022							<0.002
8/18/2022				<0.002	<0.002		
8/19/2022		0.0024				<0.002	
2/14/2023	<0.002						
2/15/2023							<0.002
2/16/2023		0.0014 (J)	<0.002	<0.002	<0.002	<0.002	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.002	<0.002					
7/19/2016	<0.002						
7/20/2016		<0.002					
9/14/2016	<0.002	<0.002					
11/10/2016	<0.002	<0.002					
11/11/2016			<0.002				
1/20/2017		<0.002					
1/24/2017	<0.002						
2/6/2017			<0.002				
3/14/2017		<0.002					
3/15/2017	<0.002		<0.002				
4/11/2017			<0.002				
4/25/2017	<0.002	<0.002					
4/26/2017			<0.002				
6/7/2017			<0.002				
7/11/2017			<0.002				
8/9/2017	<0.002	<0.002					
8/10/2017			<0.002				
3/29/2018	<0.002		<0.002				
3/30/2018		<0.002					
6/14/2018	<0.002	<0.002	<0.002				
10/4/2018	<0.002	<0.002	<0.002				
2/26/2019		<0.002					
2/27/2019	<0.002						
2/28/2019			<0.002				
4/2/2019			<0.002				
4/4/2019	<0.002	<0.002					
9/18/2019	<0.002	<0.002	<0.002				
2/7/2020	<0.002	<0.002	<0.002				
3/18/2020	<0.002	<0.002					
5/4/2020			<0.002				
9/23/2020	<0.002	<0.002	<0.002				
2/3/2021			<0.002				
2/4/2021	<0.002	<0.002					
3/11/2021	<0.002	<0.002	<0.002				
8/25/2021	<0.002	<0.002					
8/26/2021			<0.002	<0.002	<0.002	<0.002	<0.002
1/11/2022					<0.002	<0.002	<0.002
1/12/2022				<0.002			
3/3/2022	<0.002		<0.002		<0.002		
3/4/2022		<0.002		<0.002		<0.002	<0.002
6/6/2022					<0.002		<0.002
6/7/2022				<0.002		<0.002	
8/16/2022		<0.002			<0.002		
8/17/2022	<0.002		<0.002				<0.002
8/18/2022				<0.002			
8/19/2022						<0.002	
2/15/2023	<0.002					<0.002	<0.002
2/16/2023		<0.002	<0.002	<0.002	0.0015 (J)		

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			<0.002	<0.002		
7/20/2016			<0.002	<0.002		
9/14/2016				<0.002		
9/15/2016			<0.002			
11/14/2016			<0.002			
2/6/2017			<0.002			
2/9/2017				<0.002		
3/15/2017			<0.002	<0.002		
4/11/2017				<0.002		
4/26/2017			<0.002	<0.002		
8/10/2017			<0.002	<0.002		
3/29/2018			<0.002	<0.002		
6/14/2018			<0.002	<0.002		
10/4/2018			<0.002	<0.002		
2/27/2019			<0.002			
2/28/2019				0.0025		
4/3/2019			<0.002	<0.002		
9/19/2019			<0.002	<0.002		
2/5/2020				<0.002		
2/7/2020			<0.002			
3/19/2020			<0.002	<0.002		
9/22/2020			<0.002			
9/23/2020				<0.002		
2/3/2021			<0.002			
2/4/2021				<0.002		
3/11/2021			<0.002			
3/12/2021				<0.002		
8/26/2021	<0.002	<0.002	<0.002	<0.002		
1/11/2022	<0.002	<0.002				
3/3/2022	<0.002		<0.002	<0.002		
3/4/2022		<0.002				
6/6/2022	<0.002					
6/7/2022		<0.002				
8/16/2022			<0.002			
8/17/2022		<0.002		<0.002		
8/18/2022	<0.002					
10/19/2022					<0.002	0.0024
2/15/2023	<0.002	<0.002		<0.002		
2/16/2023			<0.002		<0.002	<0.002

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 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	<0.01	<0.0025	<0.0025				
5/18/2016				<0.0025	<0.0025	<0.01	<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
8/23/2021			0.00049 (J)				
8/24/2021	0.0016 (J)				<0.0025	0.00079 (J)	<0.0025
8/25/2021		0.00084 (J)		<0.0025			
2/28/2022					<0.0025		
3/1/2022	0.00073 (J)		0.00038 (J)	<0.0025		0.0014 (J)	<0.0025
3/3/2022		0.0014 (J)					
8/15/2022	0.0007 (J)		0.00045 (J)			0.00063 (J)	<0.0025
8/16/2022		0.00075 (J)		<0.0025	<0.0025		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
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)
2/14/2023	0.00073 (J)	0.001 (J)	0.00052 (J)	<0.0025		0.0011 (J)	<0.0025
2/15/2023					<0.0025		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025	0.00201 (J)					<0.0025
5/19/2016			<0.0025	<0.01	<0.0025		
7/19/2016	<0.0025						<0.0025
7/20/2016		0.00066 (J)	0.0025	0.0013 (J)	<0.0025		
9/13/2016	<0.0025						
9/14/2016		0.00095 (J)	<0.0025	0.00098 (J)	<0.0025		<0.0025
11/10/2016	0.00055 (J)				<0.0025		<0.0025
11/11/2016		0.001 (J)	0.00052 (J)	0.0017 (J)			
1/18/2017	0.00097 (J)						
1/24/2017							<0.0025
1/27/2017			0.00049 (J)	0.0022 (J)	<0.0025		
2/6/2017		0.00072 (J)					
2/8/2017						0.0051	
2/23/2017						0.014	
3/14/2017	<0.0025						<0.0025
3/15/2017		0.00062 (J)	0.00064 (J)	0.0016 (J)	<0.0025		
3/17/2017						0.013	
4/11/2017						0.016	
4/25/2017	<0.0025						<0.0025
4/26/2017		0.0014 (J)	0.001 (J)	0.00026 (J)	<0.0025	0.01	
5/17/2017						0.011	
6/7/2017						0.01	
7/11/2017						0.0085	
8/8/2017	<0.0025						
8/9/2017					0.0004 (J)		<0.0025
8/10/2017		<0.0025	0.0011 (J)	0.00049 (J)			
3/28/2018	<0.0025						
3/29/2018			<0.0025	0.0008 (J)	0.0008 (J)	0.015	
3/30/2018		0.0035					<0.0025
6/14/2018	<0.0025	0.0012 (J)	<0.0025	0.00067 (J)	0.00054 (J)	0.011	<0.0025
10/3/2018	<0.0025						<0.0025
10/4/2018		0.00086 (J)	<0.0025	0.00079 (J)	<0.0025	0.0055	
2/26/2019	0.00017 (J)						
2/27/2019		0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)	0.0049	<0.0025
4/2/2019	<0.0025						
4/3/2019			0.00081 (J)	0.00043 (J)	<0.0025	0.0056	
4/4/2019		0.0017 (J)					<0.0025
9/18/2019	0.0002 (J)				<0.0025	0.005	<0.0025
9/19/2019		0.0023	<0.0025	0.00028 (J)			
2/5/2020	0.00021 (J)	0.0013	0.00026 (J)	0.00058	<0.0025	0.0044	
2/7/2020							<0.0025
3/17/2020	0.00065 (J)						
3/18/2020		0.0012 (J)	0.00069 (J)	0.00071 (J)			<0.0025
3/19/2020					<0.0025	0.0039	
9/22/2020	0.00015 (J)						
9/23/2020		0.00062 (J)		0.00039 (J)			<0.0025
9/24/2020			<0.0025		0.00032 (J)	0.0035	
2/2/2021	<0.0025						
2/3/2021			0.00072 (J)	0.00017 (J)			
2/4/2021		0.00059 (J)			<0.0025	0.0041	0.00015 (J)
3/10/2021	<0.0025						
3/11/2021		0.00058 (J)			<0.0025	0.0037	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.0022 (J)	0.00042 (J)			<0.0025
8/24/2021	0.00017 (J)						
8/25/2021			0.00045 (J)	0.0005 (J)	<0.0025	0.0029	
8/26/2021		0.00044 (J)					<0.0025
3/3/2022	<0.0025	0.00045 (J)	0.00026 (J)		<0.0025	0.0024 (J)	<0.0025
3/4/2022				0.00056 (J)			
8/16/2022	<0.0025		<0.0025				
8/17/2022							<0.0025
8/18/2022				0.00034 (J)	<0.0025		
8/19/2022		0.0014 (J)				0.002 (J)	
2/14/2023	<0.0025						
2/15/2023							<0.0025
2/16/2023		<0.0025	<0.0025	0.0004 (J)	<0.0025	0.0022 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.0069	0.00245 (J)					
7/19/2016	0.012						
7/20/2016		0.0018 (J)					
9/14/2016	0.013	0.0014 (J)					
11/10/2016	0.016	0.0016 (J)					
11/11/2016			<0.0025				
1/20/2017		0.0014 (J)					
1/24/2017	0.015						
2/6/2017			0.00058 (J)				
3/14/2017		0.0023 (J)					
3/15/2017	0.014		0.00045 (J)				
4/11/2017			<0.0025				
4/25/2017	0.014	0.0023 (J)					
4/26/2017			<0.0025				
6/7/2017			<0.0025				
7/11/2017			<0.0025				
8/9/2017	0.016	0.0011 (J)					
8/10/2017			0.00049 (J)				
3/29/2018	0.0092		<0.0025				
3/30/2018		0.0016 (J)					
6/14/2018	0.0035	0.00055 (J)	<0.0025				
10/4/2018	0.0078	0.00041 (J)	<0.0025				
2/26/2019		0.00086 (J)					
2/27/2019	0.00084 (J)						
2/28/2019			0.00019 (J)				
4/2/2019			<0.0025				
4/4/2019	0.00077 (J)	<0.0025					
9/18/2019	0.00011 (J)	0.00018 (J)	0.00045 (J)				
2/7/2020	0.00016 (J)	0.00077	0.00024 (J)				
3/18/2020	0.00016 (J)	0.00052 (J)					
5/4/2020			0.00018 (J)				
9/23/2020	<0.0025	0.0009 (J)	0.00024 (J)				
2/3/2021			0.00025 (J)				
2/4/2021	0.00026 (J)	0.00042 (J)					
3/11/2021	0.00013 (J)	0.00035 (J)	0.00022 (J)				
8/25/2021	<0.0025	0.00042 (J)					
8/26/2021			0.00022 (J)	0.00046 (J)	0.00042 (J)	0.00038 (J)	0.00017 (J)
1/11/2022					0.00032 (J)	0.00025 (J)	0.00016 (J)
1/12/2022				0.00037 (J)			
3/3/2022	<0.0025		0.00034 (J)		0.00042 (J)		
3/4/2022		0.00026 (J)		<0.0025		0.00034 (J)	<0.0025
6/6/2022					0.001 (J)		<0.0025
6/7/2022				<0.0025		<0.0025	
8/16/2022		<0.0025			0.00039 (J)		
8/17/2022	<0.0025		<0.0025				<0.0025
8/18/2022				<0.0025			
8/19/2022						<0.0025	
2/15/2023	<0.0025					<0.0025	<0.0025
2/16/2023		<0.0025	0.00053 (J)	<0.0025	<0.0025		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			<0.0025	<0.0025		
7/20/2016			<0.0025	<0.0025		
9/14/2016				<0.0025		
9/15/2016			<0.0025			
11/14/2016			<0.0025			
2/6/2017			<0.0025			
2/9/2017				0.00073 (J)		
3/15/2017			<0.0025	<0.0025		
4/11/2017				<0.0025		
4/26/2017			<0.0025	<0.0025		
8/10/2017			<0.0025	<0.0025		
3/29/2018			0.00066 (J)	<0.0025		
6/14/2018			0.0011 (J)	<0.0025		
10/4/2018			<0.0025	<0.0025		
2/27/2019			0.0019 (J)			
2/28/2019				<0.0025		
4/3/2019			0.0037	<0.0025		
9/19/2019			0.0028	<0.0025		
2/5/2020				<0.0025		
2/7/2020			0.0011			
3/19/2020			0.00092 (J)	<0.0025		
9/22/2020			0.00065 (J)			
9/23/2020				<0.0025		
2/3/2021			0.00014 (J)			
2/4/2021				<0.0025		
3/11/2021			0.00043 (J)			
3/12/2021				<0.0025		
8/26/2021	0.13	0.005	0.0005 (J)	<0.0025		
1/11/2022	0.11	0.0048				
3/3/2022	0.086		0.0003 (J)	<0.0025		
3/4/2022		0.004				
6/6/2022	0.042					
6/7/2022		0.0043				
8/16/2022			0.00075 (J)			
8/17/2022		0.0037		<0.0025		
8/18/2022	0.031					
10/19/2022					0.002 (J)	0.0016 (J)
2/15/2023	0.084	0.0049		<0.0025		
2/16/2023			<0.0025		0.0013 (J)	0.0014 (J)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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
8/23/2021			0.632				
8/24/2021	0.598				1.61	0.226 (U)	9.78
8/25/2021		0.645		-0.121 (U)			
2/28/2022					1.3		
3/1/2022	-0.0398 (U)		-0.141 (U)	0.238 (U)		0.428 (U)	9.86
3/3/2022		0.474					
8/15/2022	0.559		0.725			2.38	9.58
8/16/2022		1.18		0.628	2.02		
2/14/2023	0.827	0.753	0.421 (U)	0.605		0.741	8.54

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
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)
2/15/2023					1.59		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.268 (U)	0.182 (U)					0.569
5/19/2016			0.431 (U)	0.0698 (U)	0.219 (U)		
7/19/2016	0.369 (U)						0.29 (U)
7/20/2016		-0.135 (U)	-0.263 (U)	-0.0646 (U)	0.404 (U)		
9/13/2016	0.527 (U)						
9/14/2016		0.311 (U)	0.13 (U)	0.199 (U)	0.692		0.412 (U)
11/10/2016	0.871				1		0.709
11/11/2016		0.542	0.0257 (U)	0.467			
1/18/2017	0.213 (U)						
1/24/2017							0.779
1/27/2017			0.898	0.836	0.668		
2/6/2017		0.104 (U)					
2/8/2017						0.958	
2/23/2017						0.771	
3/14/2017	0.0192 (U)						0.247 (U)
3/15/2017		0.523	0.121 (U)	0.254 (U)	0.847		
3/17/2017						1.7	
4/11/2017						0.901	
4/25/2017	0.0872 (U)						0.515
4/26/2017		0.069 (U)	0.0309 (U)	0.267 (U)	0.408 (U)	0.434	
5/17/2017						0.632	
6/7/2017						1.06	
7/11/2017						0.716	
8/8/2017	0.219 (U)						
8/9/2017					0.816		1.7
8/10/2017		0.189 (U)	0.326 (U)	0.912			
3/28/2018	0.315 (U)						
3/29/2018			0.461	0.419	0.51	0.58	
3/30/2018		0.575					0.0985 (U)
6/14/2018	0.41	0.523	0.275 (U)	-0.263 (U)	0.463	0.55	0.171 (U)
10/3/2018	0.65						0.766
10/4/2018		0.84	1.18	1.29	0.99	0.563	
2/26/2019	0.395						
2/27/2019		0.236 (U)	0.374	0.415	1.08	0.538	0.363 (U)
4/2/2019	0.182 (U)						
4/3/2019			0.187 (U)	0.264 (U)	0.446	0.497	
4/4/2019		0.233 (U)					0.418
9/18/2019	0.299 (U)				0.392	0.376 (U)	0.484
9/19/2019		0.124 (U)	0.338 (U)	0.329 (U)			
2/5/2020	-0.0263 (U)	0.0961 (U)	0.163 (U)	0.225 (U)	0.609	0.5	
2/7/2020							0.125 (U)
3/17/2020	0.258 (U)						
3/18/2020		0.461 (U)	0.866	-0.0262 (U)			0.303 (U)
3/19/2020					0.47	0.376 (U)	
9/22/2020	0.0523 (U)						
9/23/2020		0.442 (U)		0.785			0.448 (U)
9/24/2020			1.2		1.02	0.796	
2/2/2021	0.167 (U)						
2/3/2021			0.718	0.322 (U)			
2/4/2021		0.0332 (U)			0.139 (U)	0.564	0.488 (U)
3/10/2021	0.224 (U)						
3/11/2021		0.42 (U)			0.473	0.764	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.0729 (U)	0.633			0.591
8/24/2021	0.465 (U)						
8/25/2021			0.401	0.443 (U)	0.913	0.705	
8/26/2021		0.321 (U)					0.678
3/3/2022	0.415	0.587	0.622		0.621	0.956	0.358 (U)
3/4/2022				0.408			
8/16/2022	0.653		0.5				
8/17/2022							0.563
8/18/2022				0.279 (U)	0.719		
8/19/2022		0.497 (U)				0.932	
2/14/2023	-0.0224 (U)						
2/15/2023							0.0878 (U)
2/16/2023		0.326 (U)	0.417 (U)	0.388 (U)	0.2 (U)	0.455 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	1.03	0.116 (U)					
7/19/2016	2.39						
7/20/2016		0.247 (U)					
9/14/2016	3.05	0.594					
11/10/2016	2.87	0.431					
11/11/2016			-0.11 (U)				
1/20/2017		1.35					
1/24/2017	2.68						
2/6/2017			0.471				
3/14/2017		-0.107 (U)					
3/15/2017	1.64		0.255 (U)				
4/11/2017			0.19 (U)				
4/25/2017	0.878	0.228 (U)					
4/26/2017			0.22 (U)				
6/7/2017			0.126 (U)				
7/11/2017			0.511				
8/9/2017	2.5	-0.0246 (U)					
8/10/2017			0.882				
3/29/2018	1.6		0.252 (U)				
3/30/2018		0.135 (U)					
6/14/2018	1.09	-0.373 (U)	0.0458 (U)				
10/4/2018	1.99	0.775	0.381				
2/26/2019		0.431					
2/27/2019	0.721						
2/28/2019			0.254 (U)				
4/2/2019			0.209 (U)				
4/4/2019	0.632	0.386					
9/18/2019	0.278 (U)	0.167 (U)	0.403 (U)				
2/7/2020	0.797	0.244 (U)	0.2 (U)				
3/18/2020	0.437	0.0655 (U)					
5/4/2020			0.0697 (U)				
9/23/2020	0.276 (U)	0.643	1.18				
2/3/2021			0.684				
2/4/2021	0.727	0.438 (U)					
3/11/2021	0.942	0.247 (U)	0.286 (U)				
8/25/2021	0.518	0.565					
8/26/2021			0.796	1.6	1.17	3.54	0.703
1/11/2022					0.919	6.91	0.218 (U)
1/12/2022				1.09			
3/3/2022	0.573		0.909		1.31		
3/4/2022		0.573		0.925		7.57	0.437 (U)
6/6/2022					2.61		1.45
6/7/2022				0.67		4.67	
8/16/2022		0.668			1.35		
8/17/2022	0.946		0.155 (U)				0.976
8/18/2022				0.994			
8/19/2022						3.07	
2/15/2023	0.734					5.98	0.985
2/16/2023		0.121 (U)	0.248 (U)	0.853	0.617		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			0.711 (U)	0.209 (U)		
7/20/2016			1.14	-0.084 (U)		
9/14/2016				0.42 (U)		
9/15/2016			1.26			
11/14/2016			0.749			
2/6/2017			1.05			
2/9/2017				0.393		
3/15/2017			1.32	0.271 (U)		
4/11/2017				0.488 (U)		
4/26/2017			1.07	0.14 (U)		
8/10/2017			1.88	0.379		
3/29/2018			2.31	0.278 (U)		
6/14/2018			1.86	0.157 (U)		
10/4/2018			2.44	0.48		
2/27/2019			2.42			
2/28/2019				0.271 (U)		
4/3/2019			1.55	0.0621 (U)		
9/19/2019			2.06	0.537		
2/5/2020				-0.137 (U)		
2/7/2020			1.66			
3/19/2020			1.21	0.23 (U)		
9/22/2020			1.75			
9/23/2020				0.0587 (U)		
2/3/2021			2			
2/4/2021				0.353 (U)		
3/11/2021			2.38			
3/12/2021				0.831		
8/26/2021	1.63	1.12	2.87	0.681		
1/11/2022	0.749	0.606				
3/3/2022	0.893		3.18	0.431 (U)		
3/4/2022		0.818				
6/6/2022	0.845					
6/7/2022		0.5				
8/16/2022			2.4			
8/17/2022		0.763		0.139 (U)		
8/18/2022	1.03					
10/19/2022					0.185 (U)	3.77
2/15/2023	0.974	0.873		0.0109 (U)		
2/16/2023			3.04		2.16	5.49

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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	<0.2			<0.1	0.11 (J)
7/20/2016				<0.1	0.17 (J)		
9/13/2016	<0.1	0.15 (J)	<0.2	<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		<0.2				
1/18/2017				<0.1	0.15 (J)		0.11 (J)
1/19/2017		0.087 (J)				<0.1	
3/13/2017	<0.1		<0.2				
3/14/2017		<0.1		<0.1	0.13 (J)	<0.1	<0.2
4/24/2017	<0.1		<0.2				
4/25/2017		<0.1		<0.1	0.12 (J)	<0.1	<0.2
8/8/2017	<0.1	0.087 (J)	<0.2	<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		<0.2				
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			<0.2	<0.1	0.12 (J)		
9/24/2018			<0.2				
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)
8/23/2021			0.097 (J)				
8/24/2021	0.062 (J)				0.17	0.073 (J)	0.16
8/25/2021		0.13		0.077 (J)			
2/28/2022					0.083 (J)		
3/1/2022	<0.1		0.058 (J)	<0.1		<0.1	0.063 (J)
3/3/2022		0.078 (J)					

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
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)
8/15/2022	<0.1		0.057 (J)			<0.1	0.093 (J)
8/16/2022		0.06 (J)		<0.1	0.12		
2/14/2023	<0.1	0.053 (J)	0.07 (J)	0.041 (J)		<0.1	0.11
2/15/2023					0.14		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.018 (J)	0.206					0.779
5/19/2016			0.039 (J)	0.12 (J)	0.384		
7/19/2016	<0.1						0.97
7/20/2016		0.23	<0.1	0.11 (J)	0.34		
9/13/2016	<0.1						
9/14/2016		0.17 (J)	<0.1	0.095 (J)	0.31		0.89
11/10/2016	<0.1				0.26		0.88
11/11/2016		0.14 (J)	<0.1	<0.2			
1/18/2017	<0.1						
1/24/2017							0.92
1/27/2017			<0.1	<0.2	0.28		
2/6/2017		0.15 (J)					
2/8/2017						<0.1	
2/23/2017						<0.1	
3/14/2017	<0.1						0.77
3/15/2017		0.16 (J)	<0.1	<0.2	0.3		
3/17/2017						<0.1	
4/11/2017						<0.1	
4/25/2017	<0.1						0.95
4/26/2017		0.17 (J)	<0.1	<0.2	0.33	<0.1	
5/17/2017						<0.1	
6/7/2017						<0.1	
7/11/2017						<0.1	
8/8/2017	<0.1						
8/9/2017					0.32		0.91
8/10/2017		0.2	<0.1	0.11 (J)			
10/11/2017	<0.1					<0.1	0.88
10/12/2017		0.14 (J)	<0.1	0.091 (J)	0.28		
3/28/2018	<0.1						
3/29/2018			<0.1	0.089 (J)	0.27	<0.1	
3/30/2018		0.13 (J)					0.79
6/14/2018	<0.1	0.15 (J)	<0.1	0.1 (J)	0.27	<0.1	0.79
10/3/2018	<0.1						0.79
10/4/2018		0.18 (J)	<0.1	0.12 (J)	0.23	<0.1	
2/26/2019	<0.1						
2/27/2019		0.21	0.047 (J)	0.06 (J)	0.25	<0.1	0.81
4/2/2019	<0.1						
4/3/2019			0.048 (J)	0.084 (J)	0.24	0.048 (J)	
4/4/2019		0.13 (J)					0.78
9/18/2019	0.027 (J)				0.22	0.035 (J)	0.81
9/19/2019		0.13 (J)	0.037 (J)	0.093 (J)			
2/5/2020	0.026 (J)	0.14	0.045 (J)	0.098 (J)	0.2	0.04 (J)	
2/7/2020							0.79
3/17/2020	0.044 (J)						
3/18/2020		0.052 (J)	<0.1	0.033 (J)			0.71
3/19/2020					0.15	<0.1	
9/22/2020	<0.1						
9/23/2020		0.09 (J)		0.064 (J)			0.63
9/24/2020			0.18		<0.1	0.028 (J)	
2/2/2021	<0.1						
2/3/2021			0.027 (J)	0.082 (J)			
2/4/2021		0.12			0.16	0.033 (J)	0.69

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/10/2021	<0.1						
3/11/2021		0.15			0.18	0.04 (J)	
3/12/2021			0.044 (J)	0.096 (J)			0.88
8/24/2021	0.054 (J)						
8/25/2021			0.056 (J)	0.14	0.2	0.071 (J)	
8/26/2021		0.16					0.77
3/3/2022	0.038 (J)	0.067 (J)	0.055 (J)		0.21	0.057 (J)	0.88
3/4/2022				0.068 (J)			
8/16/2022	<0.1		<0.1				
8/17/2022							0.68
8/18/2022				0.073 (J)	0.14		
8/19/2022		0.1				<0.1	
2/14/2023	<0.1						
2/15/2023							0.73
2/16/2023		0.11	0.041 (J)	0.089 (J)	0.15	<0.1	

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.1 (J)	0.121 (J)					
7/19/2016	0.14 (J)						
7/20/2016		0.16 (J)					
9/14/2016	0.18 (J)	0.19 (J)					
11/10/2016	0.11 (J)	0.15 (J)					
11/11/2016			0.32				
1/20/2017		0.18 (J)					
1/24/2017	0.15 (J)						
2/6/2017			0.45				
3/14/2017		0.11 (J)					
3/15/2017	0.1 (J)		0.37				
4/11/2017			0.37				
4/25/2017	0.13 (J)	0.13 (J)					
4/26/2017			0.4				
6/7/2017			0.35				
7/11/2017			0.39				
8/9/2017	0.18 (J)	0.19 (J)					
8/10/2017			0.42				
10/11/2017	<2	0.14 (J)					
10/12/2017			0.36				
3/29/2018	0.13 (J)		0.34				
3/30/2018		0.095 (J)					
6/14/2018	<2	0.11 (J)	0.35				
10/4/2018	0.85 (J)	0.11 (J)	0.35				
2/26/2019		0.068 (J)					
2/27/2019	0.47						
2/28/2019			0.28				
4/2/2019			0.33				
4/4/2019	0.08 (J)	0.087 (J)					
9/18/2019	0.058 (J)	0.066 (J)	0.32				
2/7/2020	0.072 (J)	0.079 (J)	0.35				
3/18/2020	0.084 (J)	<0.1					
5/4/2020			0.36				
9/23/2020	0.049 (J)	0.05 (J)	0.25				
2/3/2021			0.3				
2/4/2021	0.052 (J)	0.064 (J)					
3/8/2021				1.8			
3/9/2021					1.7	1.1	0.092 (J)
3/11/2021	0.061 (J)	0.05 (J)	0.31				
4/7/2021					1.6		0.093 (J)
4/8/2021				1.7		1.4	
8/25/2021	0.099 (J)	0.093 (J)					
8/26/2021			0.38	2	2	0.51	0.081 (J)
1/11/2022					1.9	0.45	0.045 (J)
1/12/2022				1.8			
3/3/2022	0.067 (J)		0.4		1.8		
3/4/2022		0.06 (J)		2		0.42	0.045 (J)
6/6/2022					1.9		0.028 (J)
6/7/2022				2.5		0.37	
8/16/2022		0.06 (J)			1.8		
8/17/2022	0.062 (J)		0.28				0.043 (J)
8/18/2022				2			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
8/19/2022						0.31	
2/15/2023	0.076 (J)					0.31	0.048 (J)
2/16/2023		0.069 (J)	0.33	1.9	1.9		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			0.304	1.58		
7/20/2016			0.27	2		
9/14/2016				1.8		
9/15/2016			0.24			
11/14/2016			0.2			
2/6/2017			0.27			
2/9/2017				1.3		
3/15/2017			0.25	1.3		
4/11/2017				1.4		
4/26/2017			0.31	1.5		
8/10/2017			0.37	1.6		
10/12/2017			0.35	1.5		
3/29/2018			0.36	1.4		
6/14/2018			0.56	1.4		
10/4/2018			0.27	1.4		
2/27/2019			0.054 (J)			
2/28/2019				1.4		
4/3/2019			0.5	1.3		
9/19/2019			0.42	1.3		
2/5/2020				1.3		
2/7/2020			0.25			
3/19/2020			0.057 (J)	1		
9/22/2020			0.14			
9/23/2020				0.82		
2/3/2021			0.15			
2/4/2021				0.91		
3/8/2021		<0.1				
3/9/2021	1					
3/11/2021			0.16			
3/12/2021				0.98		
4/7/2021	1.1					
4/8/2021		0.028 (J)				
8/26/2021	1.2	0.047 (J)	0.21	1		
1/11/2022	1	0.028 (J)				
3/3/2022	0.71		0.19	1		
3/4/2022		0.038 (J)				
6/6/2022	0.43					
6/7/2022		<0.1				
8/16/2022			0.21			
8/17/2022		<0.1		0.9		
8/18/2022	0.24					
10/19/2022					0.52	1.8
2/15/2023	0.63	<0.1		0.85		
2/16/2023			0.14		0.92	1.7

Time Series

Constituent: Lead (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 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
8/23/2021			0.00023 (J)				
8/24/2021	<0.001				<0.001	<0.001	<0.001
8/25/2021		<0.001		<0.001			
2/28/2022					<0.001		
3/1/2022	<0.001		<0.001	<0.001		<0.001	<0.001
3/3/2022		<0.001					
8/15/2022	<0.001		<0.001			<0.001	0.00019 (J)
8/16/2022		<0.001		<0.001	<0.001		
2/14/2023	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
2/15/2023					<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001	<0.001					<0.001
5/19/2016			<0.001	<0.001	<0.001		
7/19/2016	<0.001						<0.001
7/20/2016		<0.001	<0.001	<0.001	<0.001		
9/13/2016	<0.001						
9/14/2016		<0.001	<0.001	<0.001	0.00055 (J)		<0.001
11/10/2016	<0.001				0.00047 (J)		<0.001
11/11/2016		<0.001	<0.001	<0.001			
1/18/2017	<0.001						
1/24/2017							<0.001
1/27/2017			<0.001	<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	<0.001	<0.001		
3/17/2017						<0.001	
4/11/2017						<0.001	
4/25/2017	<0.001						<0.001
4/26/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
5/17/2017						<0.001	
6/7/2017						<0.001	
7/11/2017						<0.001	
8/8/2017	<0.001						
8/9/2017					<0.001		<0.001
8/10/2017		<0.001	<0.001	<0.001			
3/28/2018	<0.001						
3/29/2018			<0.001	<0.001	<0.001	<0.001	
3/30/2018		<0.001					<0.001
2/26/2019	<0.001						
2/27/2019		0.00023 (J)	0.00058 (J)	<0.001	0.00068 (J)	<0.001	<0.001
4/2/2019	<0.001						
4/3/2019			<0.001	<0.001	0.00047 (J)	<0.001	
4/4/2019		<0.001					<0.001
9/18/2019	<0.001				0.00045 (J)	<0.001	<0.001
9/19/2019		0.00041 (J)	<0.001	<0.001			
2/5/2020	<0.001	0.00016 (J)	<0.001	<0.001	0.00045 (J)	<0.001	
2/7/2020							<0.001
3/17/2020	<0.001						
3/18/2020		0.00021 (J)	<0.001	<0.001			<0.001
3/19/2020					0.0006 (J)	0.00017 (J)	
9/22/2020	<0.001						
9/23/2020		0.00013 (J)		<0.001			<0.001
9/24/2020			0.00037 (J)		<0.001	0.00018 (J)	
2/2/2021	<0.001						
2/3/2021			<0.001	<0.001			
2/4/2021		0.00019 (J)			0.00038 (J)	0.00013 (J)	0.0003 (J)
3/10/2021	<0.001						
3/11/2021		0.00032 (J)			0.00075 (J)	0.00031 (J)	
3/12/2021			0.00038 (J)	<0.001			<0.001
8/24/2021	<0.001						
8/25/2021			0.00023 (J)	<0.001	0.00025 (J)	0.00041 (J)	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/26/2021		0.00026 (J)					<0.001
3/3/2022	<0.001	0.00025 (J)	<0.001		0.00023 (J)	0.00057 (J)	<0.001
3/4/2022				0.00033 (J)			
8/16/2022	<0.001		<0.001				
8/17/2022							<0.001
8/18/2022				<0.001	0.0011		
8/19/2022		0.0003 (J)				0.00036 (J)	
2/14/2023	<0.001						
2/15/2023							<0.001
2/16/2023		<0.001	<0.001	<0.001	0.00027 (J)	0.00024 (J)	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.001	<0.001					
7/19/2016	<0.001						
7/20/2016		<0.001					
9/14/2016	<0.001	<0.001					
11/10/2016	<0.001	<0.001					
11/11/2016			<0.001				
1/20/2017		<0.001					
1/24/2017	<0.001						
2/6/2017			<0.001				
3/14/2017		<0.001					
3/15/2017	<0.001		<0.001				
4/11/2017			<0.001				
4/25/2017	<0.001	<0.001					
4/26/2017			<0.001				
6/7/2017			<0.001				
7/11/2017			<0.001				
8/9/2017	<0.001	<0.001					
8/10/2017			<0.001				
3/29/2018	<0.001		<0.001				
3/30/2018		<0.001					
2/26/2019		0.00033 (J)					
2/27/2019	0.00014 (J)						
2/28/2019			<0.001				
4/2/2019			<0.001				
4/4/2019	<0.001	<0.001					
9/18/2019	<0.001	<0.001	<0.001				
2/7/2020	<0.001	<0.001	<0.001				
3/18/2020	<0.001	0.0002 (J)					
5/4/2020			<0.001				
9/23/2020	<0.001	<0.001	<0.001				
2/3/2021			<0.001				
2/4/2021	0.00013 (J)	<0.001					
3/11/2021	<0.001	<0.001	<0.001				
8/25/2021	<0.001	<0.001					
8/26/2021			<0.001	<0.001	<0.001	0.00022 (J)	<0.001
1/11/2022					<0.001	0.00023 (J)	<0.001
1/12/2022				<0.001			
3/3/2022	<0.001		0.0003 (J)		<0.001		
3/4/2022		<0.001		<0.001		0.00036 (J)	<0.001
6/6/2022					<0.001		<0.001
6/7/2022				<0.001		<0.001	
8/16/2022		<0.001			<0.001		
8/17/2022	<0.001		<0.001				<0.001
8/18/2022				<0.001			
8/19/2022						0.00037 (J)	
2/15/2023	<0.001					0.00023 (J)	0.0046
2/16/2023		<0.001	<0.001	<0.001	<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			<0.001	<0.001		
7/20/2016			<0.001	<0.001		
9/14/2016				<0.001		
9/15/2016			<0.001			
11/14/2016			<0.001			
2/6/2017			<0.001			
2/9/2017				<0.001		
3/15/2017			<0.001	<0.001		
4/11/2017				<0.001		
4/26/2017			<0.001	<0.001		
8/10/2017			<0.001	<0.001		
3/29/2018			<0.001	<0.001		
2/27/2019			0.00017 (J)			
2/28/2019				0.00014 (J)		
4/3/2019			<0.001	<0.001		
9/19/2019			<0.001	<0.001		
2/5/2020				<0.001		
2/7/2020			<0.001			
3/19/2020			0.00016 (J)	<0.001		
9/22/2020			0.00013 (J)			
9/23/2020				<0.001		
2/3/2021			0.00013 (J)			
2/4/2021				<0.001		
3/11/2021			<0.001			
3/12/2021				<0.001		
8/26/2021	0.0012	<0.001	0.00014 (J)	<0.001		
1/11/2022	0.00082 (J)	<0.001				
3/3/2022	0.00076 (J)		0.00052 (J)	<0.001		
3/4/2022		<0.001				
6/6/2022	0.00047 (J)					
6/7/2022		<0.001				
8/16/2022			0.00041 (J)			
8/17/2022		<0.001		<0.001		
8/18/2022	0.00032 (J)					
10/19/2022					<0.001	<0.001
2/15/2023	0.00056 (J)	<0.001		<0.001		
2/16/2023			0.00029 (J)		<0.001	<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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
8/23/2021			0.0066				
8/24/2021	<0.005				0.0036 (J)	<0.005	0.0041 (J)
8/25/2021		<0.005		<0.005			
2/28/2022					0.005		
3/1/2022	0.0029 (J)		0.0085	<0.005		<0.005	0.006
3/3/2022		<0.005					
8/15/2022	0.0032 (J)		0.007			<0.005	0.0047 (J)
8/16/2022		<0.005		<0.005	0.0043 (J)		

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
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)
2/14/2023	0.0029 (J)	<0.005	0.006	<0.005		<0.005	0.0045 (J)
2/15/2023					0.0041 (J)		

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.05 (O)	0.032					<0.005
5/19/2016			<0.005	<0.05	<0.005		
7/19/2016	<0.005						0.0036 (J)
7/20/2016		0.021	<0.005	0.0057	<0.005		
9/13/2016	<0.005						
9/14/2016		0.02	<0.005	0.0077	<0.005		<0.005
11/10/2016	<0.005				0.0038 (J)		0.0064
11/11/2016		0.017	<0.005	0.007			
1/18/2017	<0.005						
1/24/2017							0.0075
1/27/2017			<0.005	0.0074	<0.005		
2/6/2017		0.016					
2/8/2017						0.0039 (J)	
2/23/2017						<0.005	
3/14/2017	<0.005						0.0057
3/15/2017		0.014	<0.005	0.0077	<0.005		
3/17/2017						<0.005	
4/11/2017						<0.005	
4/25/2017	<0.005						0.0059
4/26/2017		0.011	<0.005	0.0011	<0.005	<0.005	
5/17/2017						0.0033 (J)	
6/7/2017						<0.005	
7/11/2017						<0.005	
8/8/2017	<0.005						
8/9/2017					<0.005		0.0068
8/10/2017		0.011	<0.005	0.0064			
3/28/2018	0.0014 (J)						
3/29/2018			0.0018 (J)	0.01	0.0022 (J)	0.0025 (J)	
3/30/2018		0.016					0.0077
6/14/2018	<0.005	0.0084	0.0011 (J)	0.0062	0.0018 (J)	0.0018 (J)	0.0052
10/3/2018	<0.005						0.006
10/4/2018		0.0085	0.0014 (J)	0.0066	0.0025 (J)	0.0016 (J)	
2/26/2019	<0.005						
2/27/2019		0.0068	<0.005	0.0068	<0.005	<0.005	0.0055
4/2/2019	<0.005						
4/3/2019			<0.005	0.0075	<0.005	0.0015 (J)	
4/4/2019		0.0059					0.0054
9/18/2019	<0.005				<0.005	<0.005	0.0054
9/19/2019		0.0075	<0.005	0.0067			
2/5/2020	<0.005	0.0061	<0.005	0.0063	<0.005	<0.005	
2/7/2020							0.0068
3/17/2020	<0.005						
3/18/2020		0.0071	<0.005	0.0081			0.0086
3/19/2020					<0.005	<0.005	
9/22/2020	<0.005						
9/23/2020		0.0054		0.007			0.0071
9/24/2020			<0.005		<0.005	<0.005	
2/2/2021	<0.005						
2/3/2021			<0.005	0.0075			
2/4/2021		0.0049 (J)			<0.005	<0.005	0.0086
3/10/2021	<0.005						
3/11/2021		0.0051			0.0037 (J)	0.0035 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.005	0.0089			0.0096
8/24/2021	<0.005						
8/25/2021			<0.005	0.0061	<0.005	<0.005	
8/26/2021		0.0044 (J)					0.0059
3/3/2022	<0.005	0.0038 (J)	<0.005		0.0018 (J)	0.0019 (J)	0.0068
3/4/2022				0.0061			
8/16/2022	<0.005		0.00092 (J)				
8/17/2022							0.0073
8/18/2022				0.0063	0.0024 (J)		
8/19/2022		0.0049 (J)				0.0021 (J)	
2/14/2023	<0.005						
2/15/2023							0.0062
2/16/2023		0.0025 (J)	<0.005	0.0036 (J)	<0.005	<0.005	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.05	<0.05					
7/19/2016	0.0091						
7/20/2016		0.0042 (J)					
9/14/2016	0.012	0.0058					
11/10/2016	0.013	0.0066					
11/11/2016			0.045				
1/20/2017		0.0044 (J)					
1/24/2017	0.011						
2/6/2017			0.05				
3/14/2017		0.0048 (J)					
3/15/2017	0.01		0.052				
4/11/2017			0.048				
4/25/2017	0.0081	0.0049 (J)					
4/26/2017			0.044				
6/7/2017			0.047				
7/11/2017			0.045				
8/9/2017	0.013	0.0067					
8/10/2017			0.056				
3/29/2018	0.015		0.072				
3/30/2018		0.0067					
6/14/2018	0.009	0.0046 (J)	0.048				
10/4/2018	0.012	0.005	0.062				
2/26/2019		0.0063					
2/27/2019	0.0075						
2/28/2019			0.045				
4/2/2019			0.052				
4/4/2019	0.0077	0.0042 (J)					
9/18/2019	0.0056	0.0047 (J)	0.052				
2/7/2020	0.0053	0.0045 (J)	0.044				
3/18/2020	0.0057	0.0054					
5/4/2020			0.049				
9/23/2020	0.0059	0.0056	0.056				
2/3/2021			0.06				
2/4/2021	0.0051	0.0047 (J)					
3/8/2021				0.11			
3/9/2021					0.022	0.011	<0.005
3/11/2021	0.005	0.0049 (J)	0.051				
4/7/2021					0.031		<0.005
4/8/2021				0.11		0.0081	
8/25/2021	0.0046 (J)	0.0048 (J)					
8/26/2021			0.057	0.11	0.032	0.011	<0.005
1/11/2022					0.038	0.011	<0.005
1/12/2022				0.15			
3/3/2022	0.0041 (J)		0.057		0.044		
3/4/2022		0.0042 (J)		0.14		0.011	0.0015 (J)
6/6/2022					0.051		0.002 (J)
6/7/2022				0.12		0.0093	
8/16/2022		0.0053			0.059		
8/17/2022	0.0042 (J)		0.056				0.0017 (J)
8/18/2022				0.11			
8/19/2022						0.01	
2/15/2023	0.0044 (J)					0.009	<0.005

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
2/16/2023		0.0026 (J)	0.053	0.14	0.053		

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			0.0215	0.0335		
7/20/2016			0.026	0.024		
9/14/2016				0.039		
9/15/2016			0.057			
11/14/2016			0.017			
2/6/2017			0.012			
2/9/2017				0.04		
3/15/2017			0.014	0.035		
4/11/2017				0.034		
4/26/2017			0.0091	0.029		
8/10/2017			0.013	0.038		
3/29/2018			0.018	0.048		
6/14/2018			0.015	0.034		
10/4/2018			0.013	0.039		
2/27/2019			0.014			
2/28/2019				0.037		
4/3/2019			0.015	0.035		
9/19/2019			0.014	0.036		
2/5/2020				0.034		
2/7/2020			0.014			
3/19/2020			0.015	0.039		
9/22/2020			0.013			
9/23/2020				0.033		
2/3/2021			0.014			
2/4/2021				0.035		
3/8/2021		0.0046 (J)				
3/9/2021	0.0084					
3/11/2021			0.013			
3/12/2021				0.034		
4/7/2021	0.0077					
4/8/2021		0.0044 (J)				
8/26/2021	0.0076	0.0044 (J)	0.013	0.03		
1/11/2022	0.0091	0.0043 (J)				
3/3/2022	0.0066		0.014	0.03		
3/4/2022		0.0035 (J)				
6/6/2022	0.0044 (J)					
6/7/2022		0.004 (J)				
8/16/2022			0.014			
8/17/2022		0.0036 (J)		0.028		
8/18/2022	0.0036 (J)					
10/19/2022					0.0072	0.16
2/15/2023	0.0068	0.0031 (J)		0.033		
2/16/2023			0.01		0.024	0.17

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 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
2/28/2022					<0.0002		
3/1/2022	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002
3/3/2022		<0.0002					
8/15/2022	<0.0002		<0.0002			<0.0002	<0.0002
8/16/2022		<0.0002		<0.0002	<0.0002		
2/14/2023	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
2/15/2023					<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0002	<0.0002					<0.0002
5/19/2016			<0.0002	<0.0002	<0.0002		
7/19/2016	7.2E-05 (J)						9.3E-05 (J)
7/20/2016		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
11/10/2016	8.7E-05 (J)				8.3E-05 (J)		8.5E-05 (J)
11/11/2016		8.5E-05 (J)	0.00011 (J)	7.9E-05 (J)			
1/18/2017	<0.0002						
1/24/2017							<0.0002
1/27/2017			<0.0002	<0.0002	<0.0002		
2/6/2017		8.3E-05 (J)					
2/8/2017						<0.0002	
2/23/2017						<0.0002	
3/14/2017	<0.0002						7.1E-05 (J)
3/15/2017		0.00013 (J)	<0.0002	0.00018 (J)	<0.0002		
3/17/2017						0.00013 (J)	
4/11/2017						<0.0002	
4/25/2017	<0.0002						<0.0002
4/26/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
5/17/2017						<0.0002	
6/7/2017						<0.0002	
7/11/2017						<0.0002	
8/8/2017	<0.0002						
8/9/2017					<0.0002		<0.0002
8/10/2017		<0.0002	<0.0002	<0.0002			
3/28/2018	<0.0002						
3/29/2018			<0.0002	0.00011 (J)	<0.0002	<0.0002	
3/30/2018		<0.0002					8.6E-05 (J)
6/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/3/2018	<0.0002						<0.0002
10/4/2018		<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	<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			<0.0002
3/19/2020					<0.0002	<0.0002	
9/22/2020	<0.0002						
9/23/2020		<0.0002		<0.0002			<0.0002
9/24/2020			<0.0002		<0.0002	<0.0002	
2/2/2021	<0.0002						
2/3/2021			<0.0002	<0.0002			
2/4/2021		<0.0002			<0.0002	<0.0002	<0.0002
3/3/2022	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/4/2022				<0.0002			
8/16/2022	<0.0002		<0.0002				
8/17/2022							<0.0002
8/18/2022				<0.0002	<0.0002		
8/19/2022		<0.0002				<0.0002	
2/14/2023	<0.0002						

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/15/2023							<0.0002
2/16/2023		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.0002	<0.0002					
7/19/2016	<0.0002						
7/20/2016		7.4E-05 (J)					
9/14/2016	<0.0002	<0.0002					
11/10/2016	0.00012 (J)	<0.0002					
11/11/2016			7.6E-05 (J)				
1/20/2017		<0.0002					
1/24/2017	7E-05 (J)						
2/6/2017			0.00012 (J)				
3/14/2017		<0.0002					
3/15/2017	<0.0002		<0.0002				
4/11/2017			<0.0002				
4/25/2017	0.00019 (J)	<0.0002					
4/26/2017			<0.0002				
6/7/2017			<0.0002				
7/11/2017			<0.0002				
8/9/2017	<0.0002	<0.0002					
8/10/2017			<0.0002				
3/29/2018	<0.0002		<0.0002				
3/30/2018		<0.0002					
6/14/2018	<0.0002	<0.0002	<0.0002				
10/4/2018	<0.0002	<0.0002	<0.0002				
2/26/2019		<0.0002					
2/27/2019	<0.0002						
2/28/2019			<0.0002				
2/7/2020	<0.0002	<0.0002	<0.0002				
3/18/2020	<0.0002	<0.0002					
5/4/2020			<0.0002				
9/23/2020	<0.0002	<0.0002	<0.0002				
2/3/2021			<0.0002				
2/4/2021	<0.0002	<0.0002					
8/26/2021				0.00033	0.0002	0.00018 (J)	0.00022
1/11/2022					<0.0002	<0.0002	<0.0002
1/12/2022				<0.0002			
3/3/2022	<0.0002		<0.0002		<0.0002		
3/4/2022		<0.0002		<0.0002		<0.0002	<0.0002
6/6/2022					<0.0002		<0.0002
6/7/2022				<0.0002		<0.0002	
8/16/2022		<0.0002			<0.0002		
8/17/2022	<0.0002		<0.0002				<0.0002
8/18/2022				<0.0002			
8/19/2022						<0.0002	
2/15/2023	<0.0002					<0.0002	<0.0002
2/16/2023		<0.0002	<0.0002	<0.0002	<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			<0.0002	<0.0002		
7/20/2016			<0.0002	<0.0002		
9/14/2016				<0.0002		
9/15/2016			0.00011 (J)			
11/14/2016			<0.0002			
2/6/2017			7.8E-05 (J)			
2/9/2017				<0.0002		
3/15/2017			0.00013 (J)	0.00013 (J)		
4/11/2017				<0.0002		
4/26/2017			<0.0002	<0.0002		
8/10/2017			<0.0002	<0.0002		
3/29/2018			<0.0002	<0.0002		
6/14/2018			<0.0002	<0.0002		
10/4/2018			<0.0002	<0.0002		
2/27/2019			<0.0002			
2/28/2019				<0.0002		
2/5/2020				<0.0002		
2/7/2020			<0.0002			
3/19/2020			<0.0002	<0.0002		
9/22/2020			<0.0002			
9/23/2020				<0.0002		
2/3/2021			<0.0002			
2/4/2021				<0.0002		
8/26/2021	0.00026	0.0019				
1/11/2022	<0.0002	<0.0002				
3/3/2022	<0.0002		<0.0002	<0.0002		
3/4/2022		<0.0002				
6/6/2022	<0.0002					
6/7/2022		<0.0002				
8/16/2022			<0.0002			
8/17/2022		<0.0002		<0.0002		
8/18/2022	<0.0002					
10/19/2022					<0.0002	<0.0002
2/15/2023	<0.0002	<0.0002		<0.0002		
2/16/2023			<0.0002		<0.0002	<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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
8/23/2021			<0.015				
8/24/2021	<0.015				<0.015	<0.015	<0.015
8/25/2021		<0.015		<0.015			
2/28/2022					<0.015		
3/1/2022	<0.015		<0.015	<0.015		<0.015	<0.015
3/3/2022		<0.015					
8/15/2022	<0.015		<0.015			<0.015	<0.015
8/16/2022		<0.015		<0.015	<0.015		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
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)
2/14/2023	<0.015	<0.015	<0.015	<0.015		<0.015	<0.015
2/15/2023					<0.015		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.015	<0.015					0.0153
5/19/2016			<0.015	<0.015	0.00491 (J)		
7/19/2016	<0.015						0.0093 (J)
7/20/2016		<0.015	<0.015	0.00095 (J)	0.0025 (J)		
9/13/2016	<0.015						
9/14/2016		0.00091 (J)	<0.015	0.0009 (J)	0.0028 (J)		0.012 (J)
11/10/2016	<0.015				0.0016 (J)		0.0065 (J)
11/11/2016		<0.015	<0.015	<0.015			
1/18/2017	0.001 (J)						
1/24/2017							0.0049 (J)
1/27/2017			<0.015	<0.015	0.0023 (J)		
2/6/2017		<0.015					
2/8/2017						<0.015	
2/23/2017						<0.015	
3/14/2017	0.0014 (J)						0.0034 (J)
3/15/2017		<0.015	<0.015	<0.015	0.0022 (J)		
3/17/2017						<0.015	
4/11/2017						<0.015	
4/25/2017	<0.015						0.004 (J)
4/26/2017		<0.015	<0.015	<0.015	0.0019 (J)	<0.015	
5/17/2017						<0.015	
6/7/2017						0.001 (J)	
7/11/2017						<0.015	
8/8/2017	<0.015						
8/9/2017					0.0028 (J)		0.0042 (J)
8/10/2017		0.00093 (J)	0.0011 (J)	0.0046 (J)			
3/28/2018	<0.015						
3/29/2018			<0.015	<0.015	0.0028 (J)	<0.015	
3/30/2018		<0.015					0.0049 (J)
6/14/2018	<0.015	<0.015	<0.015	<0.015	0.0018 (J)	<0.015	0.0056 (J)
10/3/2018	<0.015						0.0041 (J)
10/4/2018		<0.015	<0.015	<0.015	<0.015	<0.015	
2/26/2019	<0.015						
2/27/2019		<0.015	<0.015	0.00063 (J)	0.0019 (J)	<0.015	0.0061
4/2/2019	<0.015						
4/3/2019			<0.015	<0.015	<0.015	<0.015	
4/4/2019		<0.015					0.0039 (J)
9/18/2019	<0.015				0.0021 (J)	<0.015	0.0052
9/19/2019		<0.015	<0.015	0.00073 (J)			
2/5/2020	<0.015	<0.015	<0.015	<0.015	0.0012 (J)	<0.015	
2/7/2020							0.0024 (J)
3/17/2020	<0.015						
3/18/2020		<0.015	<0.015	<0.015			0.002 (J)
3/19/2020					0.0018 (J)	<0.015	
9/22/2020	<0.015						
9/23/2020		<0.015		<0.015			0.0031 (J)
9/24/2020			0.0017 (J)		<0.015	<0.015	
2/2/2021	<0.015						
2/3/2021			<0.015	<0.015			
2/4/2021		<0.015			0.0012 (J)	<0.015	0.0022 (J)
3/10/2021	<0.015						
3/11/2021		<0.015			0.0013 (J)	<0.015	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.015	0.00062 (J)			0.0019 (J)
8/24/2021	<0.015						
8/25/2021			<0.015	<0.015	0.00092 (J)	<0.015	
8/26/2021		<0.015					0.0029 (J)
3/3/2022	<0.015	<0.015	<0.015		0.00094 (J)	<0.015	0.0025 (J)
3/4/2022				<0.015			
8/16/2022	<0.015		<0.015				
8/17/2022							0.0025 (J)
8/18/2022				<0.015	0.00087 (J)		
8/19/2022		<0.015				<0.015	
2/14/2023	<0.015						
2/15/2023							0.0027 (J)
2/16/2023		<0.015	<0.015	<0.015	0.0013 (J)	<0.015	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.015	0.00526 (J)					
7/19/2016	<0.015						
7/20/2016		0.0066 (J)					
9/14/2016	<0.015	0.0081 (J)					
11/10/2016	<0.015	0.0076 (J)					
11/11/2016			<0.015				
1/20/2017		0.0094 (J)					
1/24/2017	<0.015						
2/6/2017			0.001 (J)				
3/14/2017		0.0044 (J)					
3/15/2017	<0.015		<0.015				
4/11/2017			<0.015				
4/25/2017	<0.015	0.0074 (J)					
4/26/2017			<0.015				
6/7/2017			0.0015 (J)				
7/11/2017			<0.015				
8/9/2017	<0.015	0.0066 (J)					
8/10/2017			0.0016 (J)				
3/29/2018	<0.015		0.0012 (J)				
3/30/2018		0.0024 (J)					
6/14/2018	<0.015	0.0026 (J)	0.0014 (J)				
10/4/2018	<0.015	0.00085 (J)	<0.015				
2/26/2019		0.0032 (J)					
2/27/2019	<0.015						
2/28/2019			0.0013 (J)				
4/2/2019			<0.015				
4/4/2019	<0.015	0.002 (J)					
9/18/2019	<0.015	0.0026 (J)	0.0011 (J)				
2/7/2020	<0.015	0.0025 (J)	0.0014 (J)				
3/18/2020	<0.015	0.0024 (J)					
5/4/2020			0.0013 (J)				
9/23/2020	<0.015	0.0027 (J)	0.0013 (J)				
2/3/2021			0.0013 (J)				
2/4/2021	<0.015	0.0025 (J)					
3/11/2021	<0.015	0.0022 (J)	0.0012 (J)				
8/25/2021	<0.015	0.0022 (J)					
8/26/2021			0.0011 (J)	0.00079 (J)	0.044	<0.015	<0.015
1/11/2022					0.037	<0.015	<0.015
1/12/2022				0.00062 (J)			
3/3/2022	<0.015		0.0013 (J)		0.036		
3/4/2022		0.0021 (J)		<0.015		0.00084 (J)	<0.015
6/6/2022					0.032		<0.015
6/7/2022				<0.015		<0.015	
8/16/2022		0.0024 (J)			0.042		
8/17/2022	<0.015		0.001 (J)				<0.015
8/18/2022				<0.015			
8/19/2022						<0.015	
2/15/2023	<0.015					<0.015	<0.015
2/16/2023		0.0022 (J)	0.0014 (J)	<0.015	0.034		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			<0.015	0.00762 (J)		
7/20/2016			<0.015	0.0084 (J)		
9/14/2016				0.0071 (J)		
9/15/2016			<0.015			
11/14/2016			<0.015			
2/6/2017			<0.015			
2/9/2017				0.018		
3/15/2017			<0.015	0.0057 (J)		
4/11/2017				0.0047 (J)		
4/26/2017			<0.015	0.004 (J)		
8/10/2017			<0.015	0.0046 (J)		
3/29/2018			<0.015	0.0048 (J)		
6/14/2018			<0.015	0.0046 (J)		
10/4/2018			<0.015	0.003 (J)		
2/27/2019			<0.015			
2/28/2019				0.0053		
4/3/2019			<0.015	0.0026 (J)		
9/19/2019			<0.015	0.0048 (J)		
2/5/2020				0.0044 (J)		
2/7/2020			<0.015			
3/19/2020			<0.015	0.0042 (J)		
9/22/2020			<0.015			
9/23/2020				0.0027 (J)		
2/3/2021			<0.015			
2/4/2021				0.003 (J)		
3/11/2021			<0.015			
3/12/2021				0.003 (J)		
8/26/2021	<0.015	<0.015	<0.015	0.0028 (J)		
1/11/2022	<0.015	<0.015				
3/3/2022	<0.015		<0.015	0.0027 (J)		
3/4/2022		<0.015				
6/6/2022	<0.015					
6/7/2022		<0.015				
8/16/2022			<0.015			
8/17/2022		<0.015		0.0027 (J)		
8/18/2022	<0.015					
10/19/2022					<0.015	0.0087 (J)
2/15/2023	<0.015	<0.015		0.0025 (J)		
2/16/2023			<0.015		<0.015	0.006 (J)

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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
8/23/2021			6.18				
8/24/2021	5.21				7.22	6.8	7.88
8/25/2021		6.74		5.52			
2/28/2022					7.14		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
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)
3/1/2022	5.32		6.2	5.59		5.47	7.86
3/3/2022		5.94					
8/15/2022	5.28		6.04			6.54	7.76
8/16/2022		6.19		5.46	6.92		
2/14/2023	5.37	5.89	6.06	5.49		5.3	7.78
2/15/2023					7.21		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	5.5	8.96					7.75
5/19/2016			5.93	6.91	6.85		
7/18/2016			5.9661				
7/19/2016	5.43						7.876073
7/20/2016		8.56774		6.962608	6.705264		
9/1/2016				6.96			
9/13/2016	5.57						
9/14/2016					6.7		7.79
11/10/2016	6.93				6.5		7.76
11/11/2016		6.96	6.03	6.76			
1/18/2017	7.16						
1/24/2017							7.71
1/27/2017			6.21	6.66	6.47		
2/6/2017		6.93					
2/8/2017						5.81	
2/23/2017						5.8	
3/14/2017	5.82						7.57
3/15/2017		6.82	5.97	6.3	6.75		
3/17/2017						5.97	
4/11/2017						6.18	
4/25/2017	5.57						7.47
4/26/2017		6.73	6.17	6.67	6.57	6.09	
5/17/2017						6.26	
6/7/2017						6.21	
7/11/2017						6	
8/8/2017	5.6						
8/9/2017					6.55		7.37
8/10/2017		6.66	6.05	6.7			
10/11/2017	5.43					6.97	7.42
10/12/2017		6.67	6.89	6.89	6.67		
3/28/2018	5.29						
3/29/2018			6.85	7.08	6.99	6.51	
3/30/2018		6.98					7.48
6/14/2018	5.39	6.56	5.89	6.73	6.39	5.76	7.5
10/3/2018	5.33						7.11
10/4/2018		6.4	5.81	6.79	6.5	5.97	
2/26/2019	5.62						
2/27/2019		6.23	5.78	6.7	6.47	5.73	7.4
4/2/2019	5.6						
4/3/2019			6.07	6.91	6.47	5.68	
4/4/2019		6.46					7.58
9/18/2019	5.6				6.46	5.5	7.8
9/19/2019		6.45	5.82	6.63			
2/5/2020	5.54	6.42	5.89	6.76	6.44	5.52	
2/7/2020							7.66
3/17/2020	5.32						
3/18/2020		6.4	5.89	6.94			7.73
3/19/2020					6.56	5.49	
9/22/2020	5.36						
9/23/2020		6.14		6.42			7.35
9/24/2020			5.5		6.29	5.16	
2/2/2021	5.84						

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/3/2021			5.21	6.15			
2/4/2021		6.21			6.34	5.76	7.77
3/10/2021	4.96						
3/11/2021		6.56			5.95	5.1	
3/12/2021			5.46	6.66			7.72
8/24/2021	5.53						
8/25/2021			5.66	6.69	6.27	5.39	
8/26/2021		6.31					7.58
3/3/2022	5.49	6.36	5.59		6.31	5.4	7.61
3/4/2022				6.79			
8/16/2022	5.32		5.56				
8/17/2022							7.54
8/18/2022				6.52	6.15		
8/19/2022		6.2				5.25	
2/14/2023	5.44						
2/15/2023							7.72
2/16/2023		6.39	5.69	6.61	6.27	5.4	

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	6.06	6.41					
7/18/2016	5.884339						
7/20/2016		6.662463					
9/14/2016	5.89	6.7					
11/10/2016	5.6	6.51					
11/11/2016			6.93				
1/20/2017		6.55					
1/24/2017	5.54						
2/6/2017			6.8				
3/14/2017		6.27					
3/15/2017	5.39		6.78				
4/11/2017			6.79				
4/25/2017	5.28	6.26					
4/26/2017			6.82				
6/7/2017			6.76				
7/11/2017			6.99				
8/9/2017	5.46	6.47					
8/10/2017			6.59				
10/11/2017	5.45	6.47					
10/12/2017			6.7				
3/29/2018	5.33		6.88				
3/30/2018		6.71					
6/14/2018	5.35	6.15	6.72				
10/4/2018	5.28	6.14	6.67				
2/26/2019		6.17					
2/27/2019	5.08						
2/28/2019			6.98				
4/2/2019			6.75				
4/4/2019	5.19	6.16					
9/18/2019	5.19	6.17	6.71				
2/7/2020	5.17	6.34	7.08				
3/18/2020	5.08	6.28					
5/4/2020			6.9				
9/23/2020	5.05	5.89	6.59				
2/3/2021			6.75				
2/4/2021	5.42	6.31					
3/8/2021				5.54			
3/9/2021					7.29	5.56	5.81
3/11/2021	5.21	5.96	7.12				
4/7/2021					7.05		5.57
4/8/2021				5.6		6.01	
8/25/2021	5.25	6.09					
8/26/2021			6.66	5.37	6.88	5.4	5.8
1/11/2022					6.68	5.4	5.61
1/12/2022				5.19			
3/3/2022	5.22		6.69		6.88		
3/4/2022		6.21		5.23		5.34	5.74
6/6/2022					6.69		5.73
6/7/2022				5.39		5.41	
8/16/2022		6.02			6.72		
8/17/2022	5.24		6.6				5.64
8/18/2022				5.29			

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
8/19/2022						5.34	
2/15/2023	5.19					5.47	5.49
2/16/2023		6.28	6.8	5.17	6.92		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			5.99	6.31		
7/20/2016			6.194334	6.345061		
9/14/2016				6.33		
9/15/2016			6.38			
11/14/2016			5.7			
2/6/2017			5.66			
3/15/2017			5.77	5.99		
4/26/2017			5.39	6.03		
8/10/2017			5.59	5.86		
10/12/2017			5.46	6.09		
3/29/2018			5.43	5.89		
6/14/2018			5.76	6.47		
10/4/2018			5.39	6.17		
2/28/2019				6.045 (D)		
4/3/2019			5.55	6.1		
9/19/2019			5.39	6.38		
2/5/2020				6.54		
2/7/2020			5.38			
3/19/2020			6.43	6.64		
9/22/2020			5.17			
9/23/2020				5.8		
2/3/2021			5.08			
2/4/2021				6.22		
3/8/2021		5.36				
3/9/2021	4.29					
3/11/2021			5.35			
3/12/2021				5.88		
4/7/2021	4.43					
4/8/2021		5.39				
8/26/2021	4.33	5.3	5.36	5.84		
1/11/2022	4.39	5.26				
3/3/2022	4.39		5.21	5.86		
3/4/2022		5.21				
6/6/2022	4.52					
6/7/2022		5.32				
8/16/2022			5.4			
8/17/2022		5.28		5.8		
8/18/2022	4.42					
10/19/2022					5.93	6.27
2/15/2023	4.54	5.36		5.86		
2/16/2023			5.22		5.91	5.52

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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
8/23/2021			<0.005				
8/24/2021	<0.005				<0.005	<0.005	<0.005
8/25/2021		<0.005		<0.005			
2/28/2022					<0.005		
3/1/2022	<0.005		<0.005	<0.005		<0.005	<0.005
3/3/2022		<0.005					
8/15/2022	<0.005		<0.005			<0.005	<0.005
8/16/2022		<0.005		<0.005	<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
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)
2/14/2023	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
2/15/2023					<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.005	<0.005					<0.005
5/19/2016			<0.005	<0.005	<0.005		
7/19/2016	<0.005						<0.005
7/20/2016		<0.005	<0.005	<0.005	<0.005		
9/13/2016	<0.005						
9/14/2016		<0.005	<0.005	<0.005	<0.005		<0.005
11/10/2016	<0.005				<0.005		<0.005
11/11/2016		<0.005	<0.005	<0.005			
1/18/2017	<0.005						
1/24/2017							<0.005
1/27/2017			<0.005	<0.005	<0.005		
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		<0.005	<0.005	<0.005	<0.005		
3/17/2017						<0.005	
4/11/2017						<0.005	
4/25/2017	<0.005						<0.005
4/26/2017		<0.005	<0.005	<0.005	<0.005	<0.005	
5/17/2017						<0.005	
6/7/2017						<0.005	
7/11/2017						<0.005	
8/8/2017	<0.005						
8/9/2017					<0.005		<0.005
8/10/2017		0.00031 (J)	0.00049 (J)	0.0021			
3/28/2018	<0.005						
3/29/2018			<0.005	<0.005	<0.005	0.0003 (J)	
3/30/2018		<0.005					<0.005
6/14/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0005 (J)
10/3/2018	<0.005						<0.005
10/4/2018		<0.005	<0.005	<0.005	<0.005	<0.005	
2/26/2019	<0.005						
2/27/2019		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/2/2019	<0.005						
4/3/2019			<0.005	<0.005	<0.005	<0.005	
4/4/2019		<0.005					<0.005
9/18/2019	<0.005				<0.005	<0.005	<0.005
9/19/2019		<0.005	<0.005	<0.005			
2/5/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/7/2020							<0.005
3/17/2020	<0.005						
3/18/2020		<0.005	<0.005	<0.005			<0.005
3/19/2020					<0.005	<0.005	
9/22/2020	<0.005						
9/23/2020		<0.005		<0.005			<0.005
9/24/2020			<0.005		<0.005	<0.005	
2/2/2021	<0.005						
2/3/2021			<0.005	<0.005			
2/4/2021		<0.005			<0.005	<0.005	<0.005
3/10/2021	<0.005						
3/11/2021		<0.005			<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.005	<0.005			<0.005
8/24/2021	<0.005						
8/25/2021			<0.005	<0.005	<0.005	<0.005	
8/26/2021		<0.005					<0.005
3/3/2022	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
3/4/2022				<0.005			
8/16/2022	<0.005		<0.005				
8/17/2022							<0.005
8/18/2022				<0.005	<0.005		
8/19/2022		<0.005				<0.005	
2/14/2023	<0.005						
2/15/2023							<0.005
2/16/2023		<0.005	<0.005	<0.005	<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.00735	<0.005					
7/19/2016	0.0075						
7/20/2016		<0.005					
9/14/2016	0.0091	<0.005					
11/10/2016	0.0056	<0.005					
11/11/2016			<0.005				
1/20/2017		<0.005					
1/24/2017	0.012						
2/6/2017			<0.005				
3/14/2017		<0.005					
3/15/2017	0.012		<0.005				
4/11/2017			<0.005				
4/25/2017	0.013	<0.005					
4/26/2017			<0.005				
6/7/2017			<0.005				
7/11/2017			<0.005				
8/9/2017	0.016	<0.005					
8/10/2017			0.00036 (J)				
3/29/2018	0.016		<0.005				
3/30/2018		<0.005					
6/14/2018	0.012	<0.005	<0.005				
10/4/2018	0.013	<0.005	<0.005				
2/26/2019		<0.005					
2/27/2019	0.0081						
2/28/2019			<0.005				
4/2/2019			<0.005				
4/4/2019	0.0091	<0.005					
9/18/2019	0.0044 (J)	<0.005	<0.005				
2/7/2020	0.0036 (J)	<0.005	<0.005				
3/18/2020	0.0046 (J)	<0.005					
5/4/2020			<0.005				
9/23/2020	0.0028 (J)	<0.005	<0.005				
2/3/2021			<0.005				
2/4/2021	0.0023 (J)	<0.005					
3/11/2021	0.0023 (J)	<0.005	<0.005				
8/25/2021	0.0019 (J)	<0.005					
8/26/2021			<0.005	0.0016 (J)	<0.005	0.0049 (J)	0.002 (J)
1/11/2022					<0.005	0.0065	0.0024 (J)
1/12/2022				<0.005			
3/3/2022	0.0018 (J)		<0.005		<0.005		
3/4/2022		<0.005		0.0014 (J)		0.0072	0.002 (J)
6/6/2022					<0.005		0.0018 (J)
6/7/2022				0.0014 (J)		0.0047 (J)	
8/16/2022		<0.005			<0.005		
8/17/2022	<0.005		<0.005				0.0013 (J)
8/18/2022				0.0027 (J)			
8/19/2022						0.0035 (J)	
2/15/2023	0.0019 (J)					0.0077	0.0026 (J)
2/16/2023		<0.005	<0.005	0.0017 (J)	<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			0.00518	0.00228		
7/20/2016			0.0038	0.0016		
9/14/2016				0.0024		
9/15/2016			0.0034			
11/14/2016			0.0033			
2/6/2017			0.0033			
2/9/2017				0.0023		
3/15/2017			0.003	0.0031		
4/11/2017				0.0023		
4/26/2017			0.0032	0.0019		
8/10/2017			0.0031	0.0021		
3/29/2018			0.0034	0.0021		
6/14/2018			0.0031	0.0025		
10/4/2018			0.0033	0.002		
2/27/2019			0.0035			
2/28/2019				0.0027		
4/3/2019			0.0031	0.0019		
9/19/2019			0.0021 (J)	0.0026 (J)		
2/5/2020				0.0033 (J)		
2/7/2020			0.0048 (J)			
3/19/2020			0.0037 (J)	0.0033 (J)		
9/22/2020			0.0039 (J)			
9/23/2020				0.0029 (J)		
2/3/2021			0.0036 (J)			
2/4/2021				0.003 (J)		
3/11/2021			0.0038 (J)			
3/12/2021				0.0034 (J)		
8/26/2021	<0.005	<0.005	0.0037 (J)	0.0028 (J)		
1/11/2022	<0.005	<0.005				
3/3/2022	0.00077 (J)		0.0038 (J)	0.0021 (J)		
3/4/2022		<0.005				
6/6/2022	<0.005					
6/7/2022		<0.005				
8/16/2022			0.0075			
8/17/2022		<0.005		0.0022 (J)		
8/18/2022	<0.005					
10/19/2022					<0.005	0.0014 (J)
2/15/2023	<0.005	<0.005		0.0037 (J)		
2/16/2023			0.0033 (J)		<0.005	0.0012 (J)

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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
8/23/2021			1.3				
8/24/2021	<1				7.9	2.8	8.9
8/25/2021		8.2		0.79 (J)			
2/28/2022					8.4		
3/1/2022	<1		1.6	0.98 (J)		0.99 (J)	9.2
3/3/2022		8.5					
8/15/2022	<1		0.54 (J)			1.6	7.5
8/16/2022		7.2		0.52 (J)	6.9		
2/14/2023	<1	7.3	0.66 (J)	0.65 (J)		0.66 (J)	7.9
2/15/2023					7.8		

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.368 (J)	2.84					50.7
5/19/2016			1.83	15.8	19.2		
7/19/2016	<1						62
7/20/2016		2.8	1.6	16	11		
9/13/2016	<1						
9/14/2016		2.8	1.5	16	8.6		79
11/10/2016	<1				5.7		61
11/11/2016		2.6	1.4	14			
1/18/2017	1.4						
1/24/2017							34
1/27/2017			2.5	15	6.8		
2/6/2017		2.7					
2/8/2017						4.3	
2/23/2017						16	
3/14/2017	<1						43
3/15/2017		2.7	2.5	17	11		
3/17/2017						22	
4/11/2017						13	
4/25/2017	<1						39
4/26/2017		2.5	2.2	15	8.1	20	
5/17/2017						12	
6/7/2017						8.1	
7/11/2017						17	
8/8/2017	<1						
8/9/2017					8.1		35
8/10/2017		2.2	2.3	16			
10/11/2017	<1					3.4	48
10/12/2017		1.9	1.9	14	6.1		
6/14/2018	<1	2	1.7	14	5	5.8	44
10/3/2018	<1						49
10/4/2018		1.9	1.6	14	4.3	2.8	
4/2/2019	0.4 (J)						
4/3/2019			1.9	13	3.8	3.8	
4/4/2019		2.2					41
9/18/2019	<1				3.9	1.7	37
9/19/2019		2.1	1.3	14			
3/17/2020	0.86 (J)						
3/18/2020		2.1	1.6	12			17
3/19/2020					4	1.5	
9/22/2020	0.38 (J)						
9/23/2020		1.8		12			21
9/24/2020			2.7		0.63 (J)	1.2	
3/10/2021	<1						
3/11/2021		2.8			2.9	1.7	
3/12/2021			2	14			19
8/24/2021	<1						
8/25/2021			1.1	13	1.8	<1	
8/26/2021		1.8					16
3/3/2022	<1	2	2.3		3	1.3	18
3/4/2022				14			
8/16/2022	<1		0.98 (J)				
8/17/2022							14

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/18/2022				11	1.7		
8/19/2022		1.6				<1	
2/14/2023	<1						
2/15/2023							14
2/16/2023		1.8	1	2.8	2.3	0.47 (J)	

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	388	32.1					
7/19/2016	460						
7/20/2016		9.7					
9/14/2016	500	6.6					
11/10/2016	530	5.2					
11/11/2016			3.4				
1/20/2017		5.3					
1/24/2017	600						
2/6/2017			3.7				
3/14/2017		9.6					
3/15/2017	610		3.6				
4/11/2017			3.2				
4/25/2017	620	20					
4/26/2017			3.3				
6/7/2017			3.8				
7/11/2017			3.3				
8/9/2017	780	6.5					
8/10/2017			3.7				
10/11/2017	720	13					
10/12/2017			3.6				
6/14/2018	620	16	3.5				
10/4/2018	560	15	4.6				
4/2/2019			3.8				
4/4/2019	250	9.1					
9/18/2019	130	7.3	3.6				
3/18/2020	120	4.2					
5/4/2020			4.5				
9/23/2020	85	4.4	3				
3/8/2021				240			
3/9/2021					230	80	14
3/11/2021	64	3.9	4				
4/7/2021					190		5.1
4/8/2021				240		60	
8/25/2021	63	3.3					
8/26/2021			3.5	290	190	100	7.5
1/11/2022					260	140	5.3
1/12/2022				360			
3/3/2022	57		4.8		250		
3/4/2022		3.6		390		150	5
6/6/2022					140		5.3
6/7/2022				280		96	
8/16/2022		3.4			240		
8/17/2022	49		2.8				5.5
8/18/2022				280			
8/19/2022						87	
2/15/2023	54					110	5.2
2/16/2023		2.6	3	350	340		

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			146	35.9		
7/20/2016			150	37		
9/14/2016				39		
9/15/2016			140			
11/14/2016			160			
2/6/2017			180			
2/9/2017				60		
3/15/2017			170	44		
4/11/2017				36		
4/26/2017			180	37		
8/10/2017			180	38		
10/12/2017			180	37		
6/14/2018			170	37		
10/4/2018			780	38		
4/3/2019			180	41		
9/19/2019			190	42		
3/19/2020			200	45		
9/22/2020			200			
9/23/2020				54		
3/8/2021		4.7				
3/9/2021	140					
3/11/2021			220			
3/12/2021				62		
4/7/2021	160					
4/8/2021		5.8				
8/26/2021	170	13	220	52		
1/11/2022	160	21				
3/3/2022	130		250	58		
3/4/2022		21				
6/6/2022	67					
6/7/2022		22				
8/16/2022			220			
8/17/2022		25		50		
8/18/2022	49					
10/19/2022					12	290
2/15/2023	120	27		65		
2/16/2023			250		29	370

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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
8/23/2021			<0.001				
8/24/2021	<0.001				<0.001	<0.001	<0.001
8/25/2021		<0.001		<0.001			
2/28/2022					<0.001		
3/1/2022	<0.001		<0.001	<0.001		<0.001	<0.001
3/3/2022		<0.001					
8/15/2022	<0.001		<0.001			<0.001	<0.001
8/16/2022		<0.001		<0.001	<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
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)
2/14/2023	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
2/15/2023					<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001	<0.001					<0.001
5/19/2016			<0.001	<0.001	<0.001		
7/19/2016	<0.001						<0.001
7/20/2016		<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
11/10/2016	<0.001				<0.001		<0.001
11/11/2016		<0.001	<0.001	<0.001			
1/18/2017	<0.001						
1/24/2017							<0.001
1/27/2017			<0.001	<0.001	<0.001		
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		<0.001	<0.001	<0.001	<0.001		
3/17/2017						<0.001	
4/11/2017						<0.001	
4/25/2017	<0.001						<0.001
4/26/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
5/17/2017						<0.001	
6/7/2017						<0.001	
7/11/2017						<0.001	
8/8/2017	<0.001						
8/9/2017					<0.001		<0.001
8/10/2017		<0.001	<0.001	<0.001			
3/28/2018	<0.001						
3/29/2018			<0.001	<0.001	<0.001	0.0002 (J)	
3/30/2018		8.5E-05 (J)					<0.001
6/14/2018	<0.001	<0.001	<0.001	<0.001	<0.001	0.00014 (J)	<0.001
10/3/2018	<0.001						<0.001
10/4/2018		<0.001	<0.001	<0.001	<0.001	0.00013 (J)	
2/26/2019	<0.001						
2/27/2019		<0.001	<0.001	<0.001	<0.001	0.00016 (J)	<0.001
4/2/2019	<0.001						
4/3/2019			<0.001	<0.001	<0.001	0.00012 (J)	
4/4/2019		<0.001					<0.001
9/18/2019	<0.001				<0.001	<0.001	<0.001
9/19/2019		<0.001	<0.001	<0.001			
2/5/2020	0.00026 (J)	<0.001	<0.001	<0.001	<0.001	0.00022 (J)	
2/7/2020							<0.001
3/17/2020	<0.001						
3/18/2020		<0.001	<0.001	<0.001			<0.001
3/19/2020					<0.001	0.00017 (J)	
9/22/2020	<0.001						
9/23/2020		<0.001		<0.001			<0.001
9/24/2020			<0.001		<0.001	<0.001	
2/2/2021	<0.001						
2/3/2021			0.00016 (J)	<0.001			
2/4/2021		<0.001			<0.001	0.00021 (J)	<0.001
3/10/2021	<0.001						
3/11/2021		<0.001			<0.001	0.00019 (J)	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.001	<0.001			<0.001
8/24/2021	<0.001						
8/25/2021			<0.001	<0.001	<0.001	<0.001	
8/26/2021		<0.001					<0.001
3/3/2022	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
3/4/2022				<0.001			
8/16/2022	<0.001		<0.001				
8/17/2022							<0.001
8/18/2022				<0.001	<0.001		
8/19/2022		<0.001				<0.001	
2/14/2023	<0.001						
2/15/2023							<0.001
2/16/2023		<0.001	<0.001	<0.001	<0.001	<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.001	<0.001					
7/19/2016	8.5E-05 (J)						
7/20/2016		<0.001					
9/14/2016	0.00017 (J)	<0.001					
11/10/2016	0.00017 (J)	<0.001					
11/11/2016			<0.001				
1/20/2017		<0.001					
1/24/2017	0.00023 (J)						
2/6/2017			<0.001				
3/14/2017		<0.001					
3/15/2017	0.00021 (J)		<0.001				
4/11/2017			<0.001				
4/25/2017	0.00024 (J)	<0.001					
4/26/2017			<0.001				
6/7/2017			<0.001				
7/11/2017			<0.001				
8/9/2017	0.0002 (J)	<0.001					
8/10/2017			<0.001				
3/29/2018	0.00019 (J)		<0.001				
3/30/2018		<0.001					
6/14/2018	0.00017 (J)	<0.001	<0.001				
10/4/2018	0.00015 (J)	<0.001	<0.001				
2/26/2019		<0.001					
2/27/2019	0.00015 (J)						
2/28/2019			<0.001				
4/2/2019			<0.001				
4/4/2019	9.5E-05 (J)	<0.001					
9/18/2019	<0.001	<0.001	<0.001				
2/7/2020	<0.001	<0.001	<0.001				
3/18/2020	<0.001	<0.001					
5/4/2020			<0.001				
9/23/2020	<0.001	<0.001	<0.001				
2/3/2021			0.00018 (J)				
2/4/2021	<0.001	<0.001					
3/11/2021	<0.001	<0.001	<0.001				
8/25/2021	<0.001	<0.001					
8/26/2021			<0.001	<0.001	<0.001	<0.001	<0.001
1/11/2022					<0.001	<0.001	<0.001
1/12/2022				<0.001			
3/3/2022	<0.001		<0.001		<0.001		
3/4/2022		<0.001		<0.001		0.00047 (J)	<0.001
6/6/2022					<0.001		<0.001
6/7/2022				<0.001		<0.001	
8/16/2022		<0.001			<0.001		
8/17/2022	<0.001		<0.001				<0.001
8/18/2022				<0.001			
8/19/2022						<0.001	
2/15/2023	<0.001					<0.001	<0.001
2/16/2023		<0.001	<0.001	<0.001	<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			<0.001	<0.001		
7/20/2016			<0.001	<0.001		
9/14/2016				<0.001		
9/15/2016			<0.001			
11/14/2016			<0.001			
2/6/2017			<0.001			
2/9/2017				<0.001		
3/15/2017			<0.001	<0.001		
4/11/2017				<0.001		
4/26/2017			<0.001	<0.001		
8/10/2017			<0.001	<0.001		
3/29/2018			<0.001	<0.001		
6/14/2018			<0.001	<0.001		
10/4/2018			<0.001	<0.001		
2/27/2019			<0.001			
2/28/2019				<0.001		
4/3/2019			<0.001	<0.001		
9/19/2019			<0.001	<0.001		
2/5/2020				<0.001		
2/7/2020			<0.001			
3/19/2020			<0.001	<0.001		
9/22/2020			<0.001			
9/23/2020				<0.001		
2/3/2021			<0.001			
2/4/2021				<0.001		
3/11/2021			<0.001			
3/12/2021				<0.001		
8/26/2021	0.00072 (J)	<0.001	<0.001	<0.001		
1/11/2022	0.00062 (J)	<0.001				
3/3/2022	0.0006 (J)		<0.001	<0.001		
3/4/2022		<0.001				
6/6/2022	0.00052 (J)					
6/7/2022		<0.001				
8/16/2022			<0.001			
8/17/2022		<0.001		<0.001		
8/18/2022	0.0003 (J)					
10/19/2022					<0.001	<0.001
2/15/2023	0.00045 (J)	<0.001		<0.001		
2/16/2023			<0.001		<0.001	<0.001

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

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			<5	92
7/20/2016				<5	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				<5	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
8/23/2021			110				
8/24/2021	32				110	150	120
8/25/2021		92		21			
2/28/2022					95		
3/1/2022	30		92	31		23	140
3/3/2022		43					
8/15/2022	45		100			140	120
8/16/2022		60		30	110		
2/14/2023	34	42	100	27		24	120
2/15/2023					100		

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	31	70					190
5/19/2016			39	101	127		
7/19/2016	<5						180
7/20/2016		42	<10	76	88		
9/13/2016	<5						
9/14/2016		40	24	96	92		230
11/10/2016	44				100		210
11/11/2016		72	42	100			
1/18/2017	50						
1/24/2017							140
1/27/2017			18	50	80		
2/6/2017		24					
2/8/2017						54	
2/23/2017						78	
3/14/2017	26						220
3/15/2017		78	54	120	100		
3/17/2017						56	
4/11/2017						76	
4/25/2017	10						180
4/26/2017		48	42	100	92	76	
5/17/2017						68	
6/7/2017						72	
7/11/2017						68	
8/8/2017	<5						
8/9/2017					120		180
8/10/2017		38	30	96			
10/11/2017	42					68	200
10/12/2017		72	54	100	110		
6/14/2018	14	40	16	94	88	52	170
10/3/2018	6						260
10/4/2018		60	56	110	100	130	
4/2/2019	15						
4/3/2019			<10	66	72	31	
4/4/2019		30					170
9/18/2019	35				110	33	160
9/19/2019		52	27	89			
3/17/2020	19						
3/18/2020		58	26	73			160
3/19/2020					95	18	
9/22/2020	15						
9/23/2020		50		90			150
9/24/2020			60		21	24	
3/10/2021	20						
3/11/2021		52			63	24	
3/12/2021			27	78			130
8/24/2021	24						
8/25/2021			32	110	53	30	
8/26/2021		60					150
3/3/2022	17	45	21		71	17	140
3/4/2022				89			
8/16/2022	22		33				
8/17/2022							140

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/18/2022				88	89		
8/19/2022		63				26	
2/14/2023	24						
2/15/2023							130
2/16/2023		54	33	89	81	27	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	1080	107					
7/19/2016	1200						
7/20/2016		78					
9/14/2016	1300	82					
11/10/2016	1400	98					
11/11/2016			98				
1/20/2017		82					
1/24/2017	1300						
2/6/2017			36				
3/14/2017		120					
3/15/2017	1500		120				
4/11/2017			68				
4/25/2017	1700	120					
4/26/2017			76				
6/7/2017			74				
7/11/2017			70				
8/9/2017	1900	92					
8/10/2017			66				
10/11/2017	1900	74					
10/12/2017			100				
6/14/2018	1500	100	74				
10/4/2018	1700	98	100				
4/2/2019			88				
4/4/2019	710	89					
9/18/2019	520	79	96				
3/18/2020	370	98					
5/4/2020			110				
9/23/2020	250	60	94				
3/8/2021				590			
3/9/2021					610	200	79
3/11/2021	190	75	100				
4/7/2021					520		66
4/8/2021				540		170	
8/25/2021	220	84					
8/26/2021			94	720	480	240	88
1/11/2022					580	270	67
1/12/2022				1200			
3/3/2022	170		98		580		
3/4/2022		55		1100		260	69
6/6/2022					670		90
6/7/2022				920		210	
8/16/2022		81			530		
8/17/2022	170		93				85
8/18/2022				760			
8/19/2022						190	
2/15/2023	160					210	71
2/16/2023		77	100	960	630		

Time Series

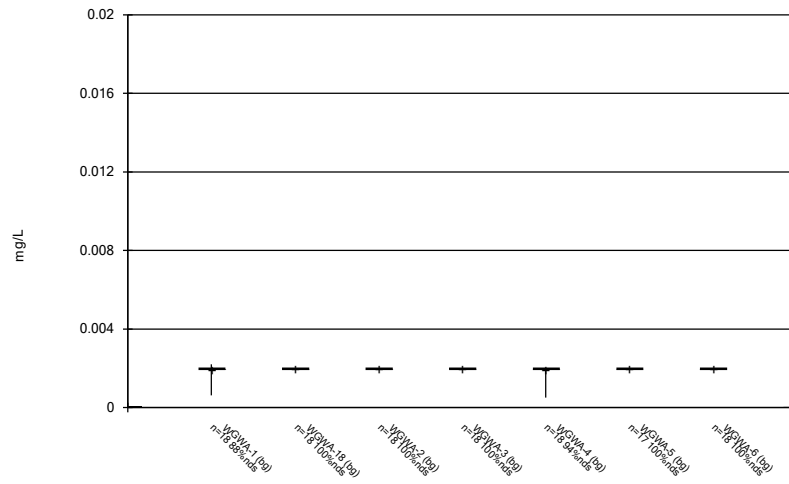
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-27	WGWC-26D
5/19/2016			311	134		
7/20/2016			290	120		
9/14/2016				140		
9/15/2016			270			
11/14/2016			320			
2/6/2017			330			
2/9/2017				180		
3/15/2017			370	160		
4/11/2017				120		
4/26/2017			380	140		
8/10/2017			380	130		
10/12/2017			450	120		
6/14/2018			410	120		
10/4/2018			520	140		
4/3/2019			430	120		
9/19/2019			440	130		
3/19/2020			540	160		
9/22/2020			600			
9/23/2020				150		
3/8/2021		220				
3/9/2021	370					
3/11/2021			530			
3/12/2021				130		
4/7/2021	510					
4/8/2021		180				
8/26/2021	420	200	550	170		
1/11/2022	320	220				
3/3/2022	280		530	140		
3/4/2022		200				
6/6/2022	210					
6/7/2022		240				
8/16/2022			580			
8/17/2022		210		150		
8/18/2022	140					
10/19/2022					92	840
2/15/2023	230	200		160		
2/16/2023			590		160	1100

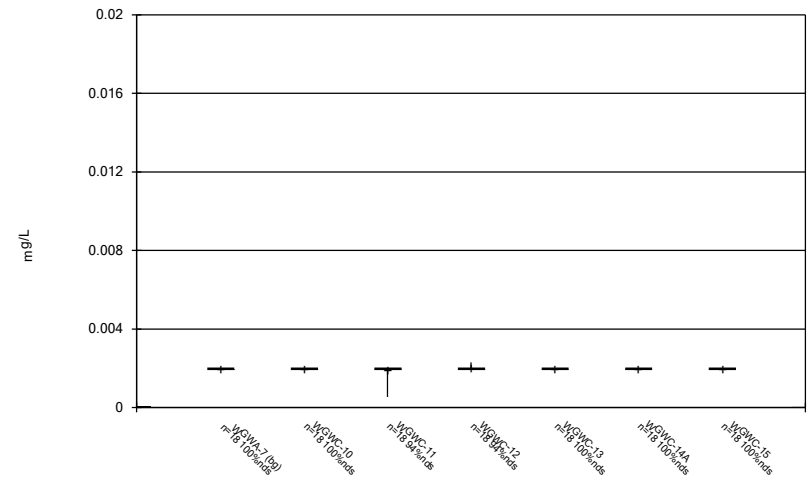
FIGURE B.

Box & Whiskers Plot



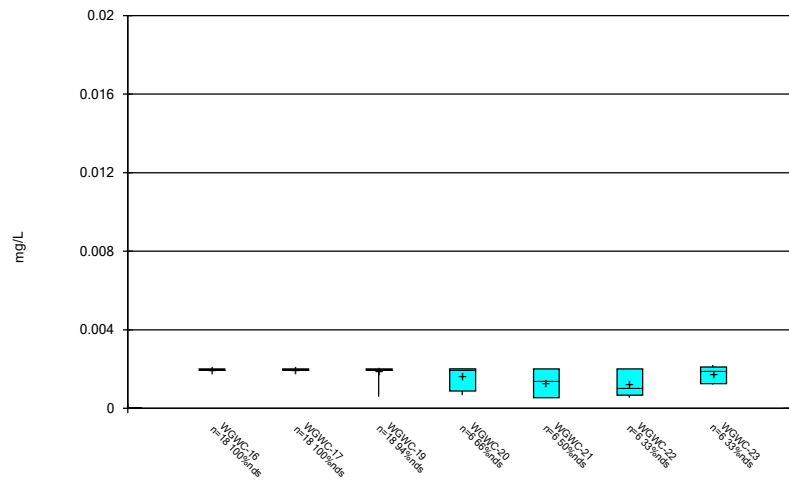
Constituent: Antimony Analysis Run 4/24/2023 11:58 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



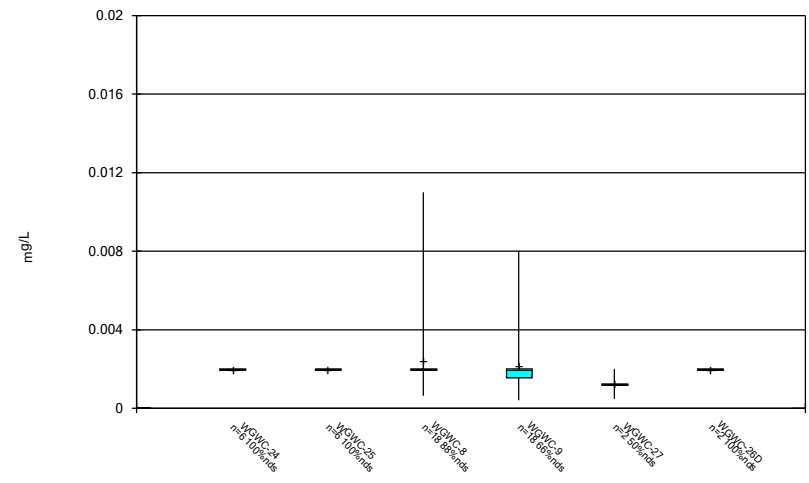
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



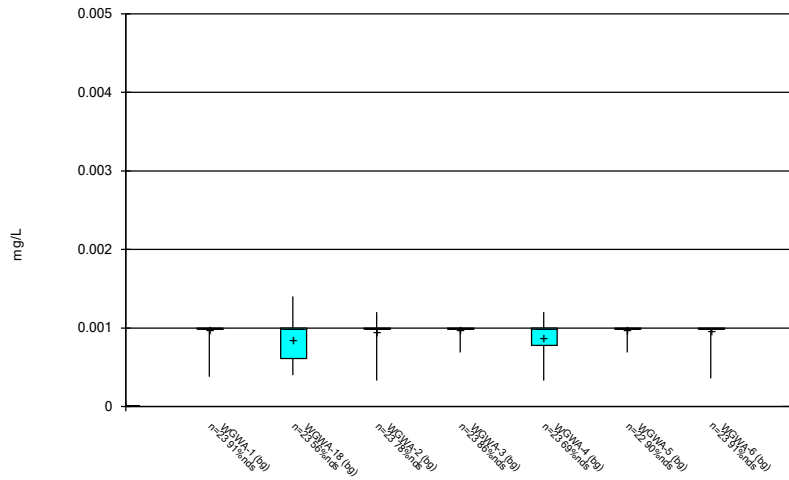
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Box & Whiskers Plot



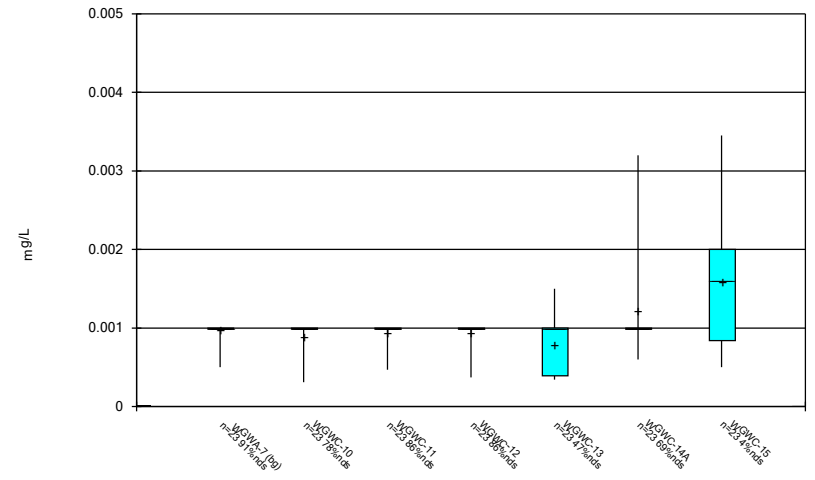
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Box & Whiskers Plot



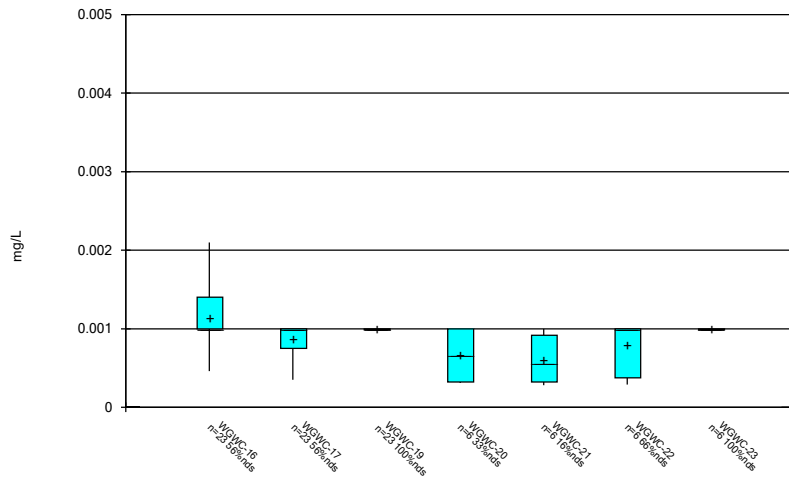
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Box & Whiskers Plot



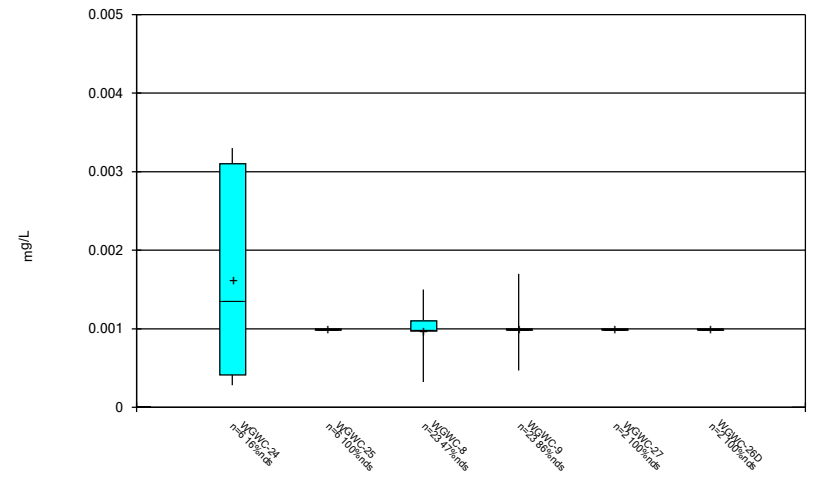
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Box & Whiskers Plot



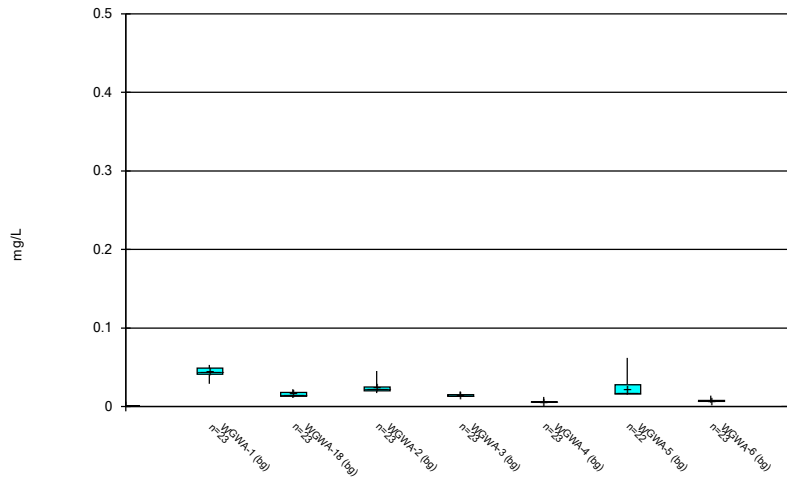
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Box & Whiskers Plot



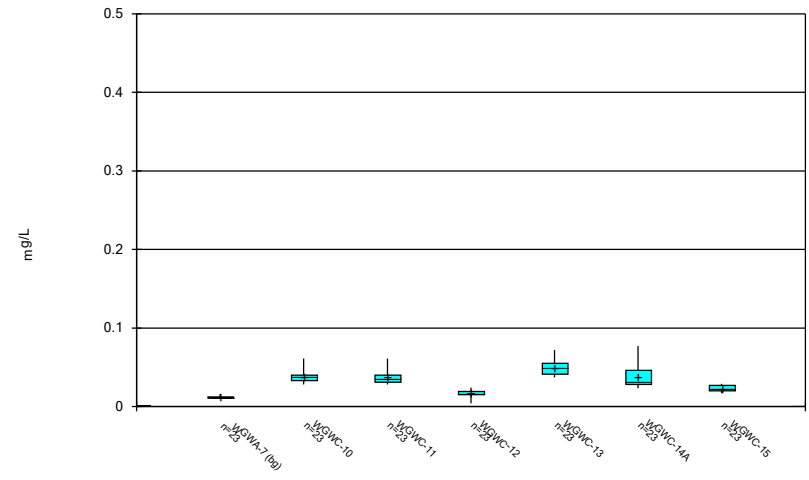
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Box & Whiskers Plot



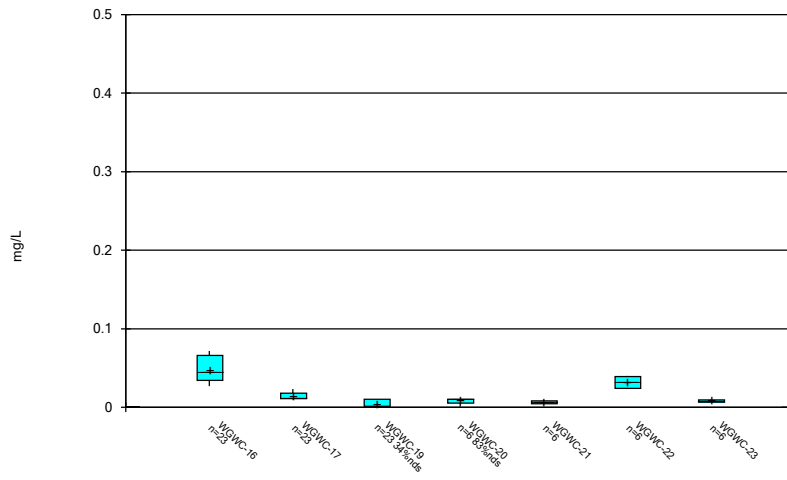
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Box & Whiskers Plot



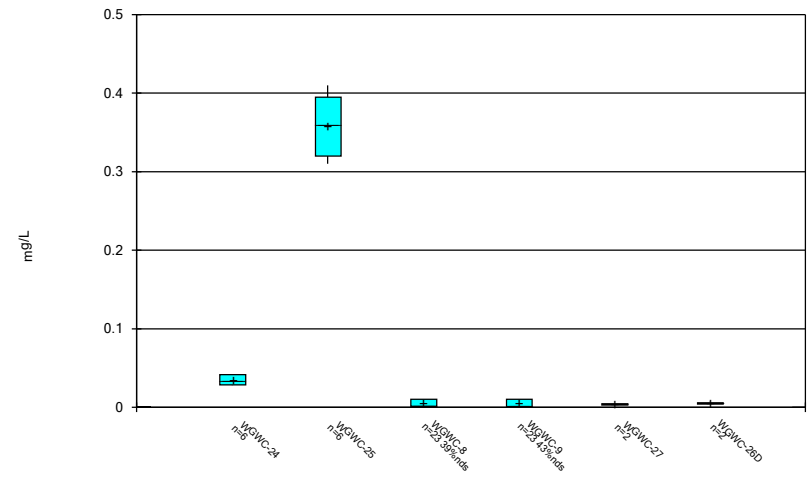
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Box & Whiskers Plot



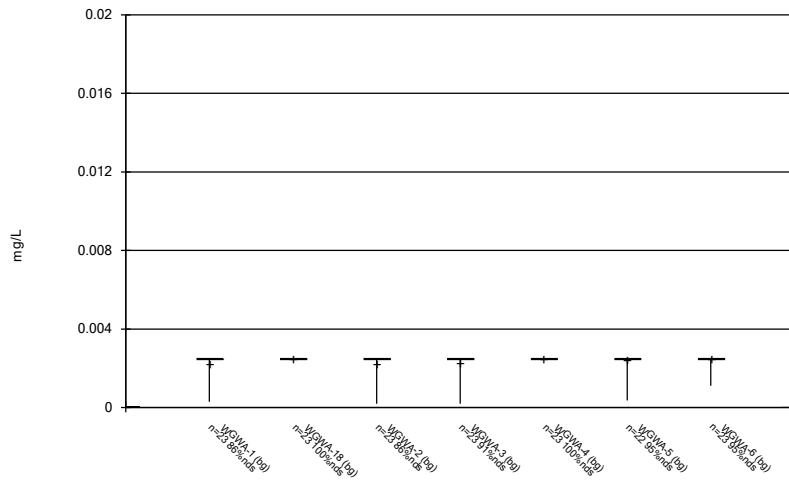
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Box & Whiskers Plot



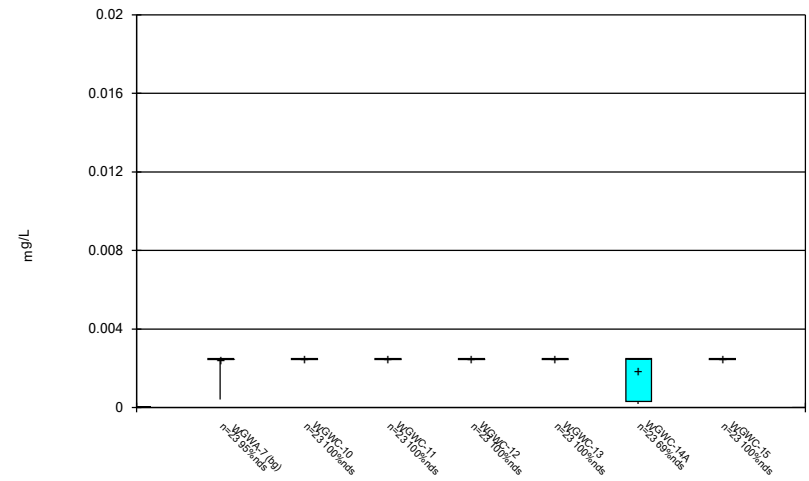
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Box & Whiskers Plot



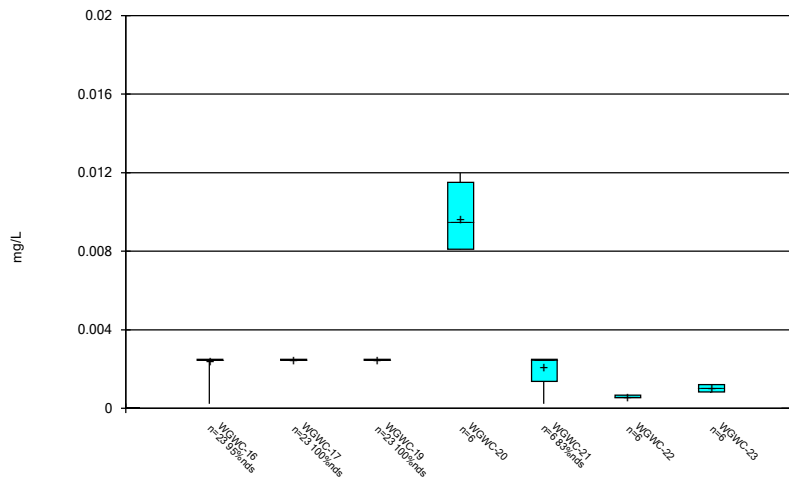
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Box & Whiskers Plot



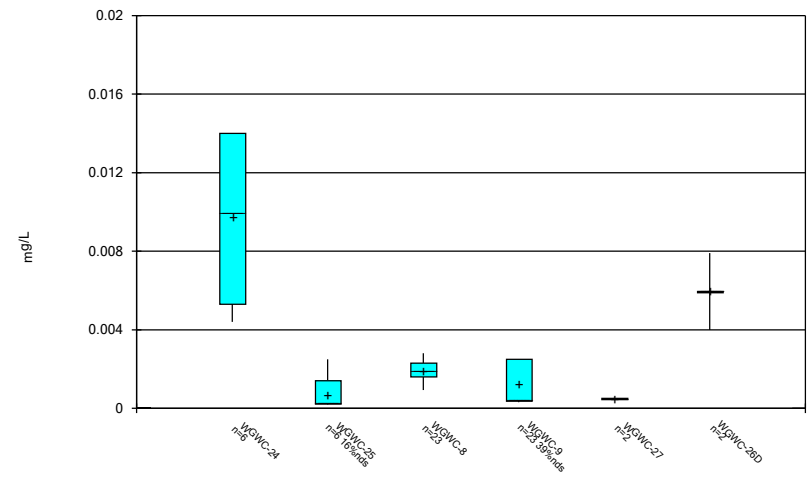
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Box & Whiskers Plot



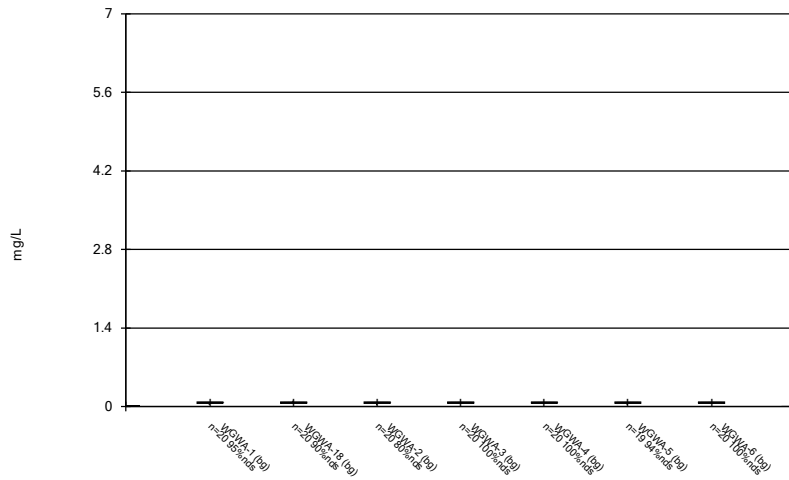
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Box & Whiskers Plot



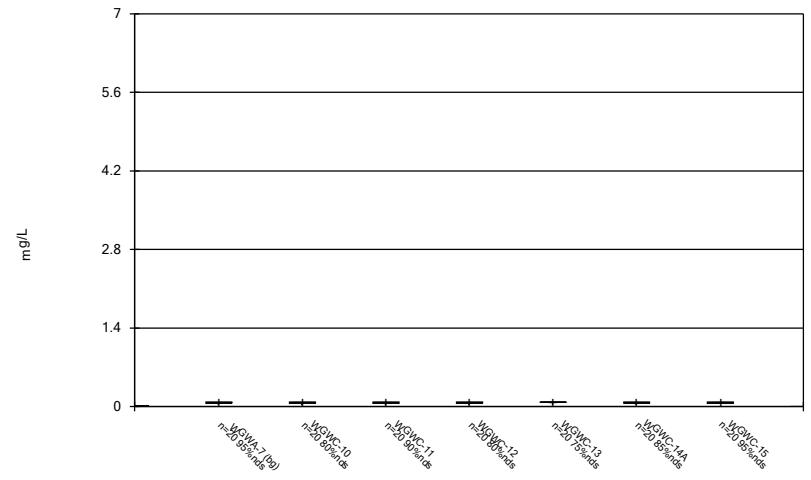
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Box & Whiskers Plot



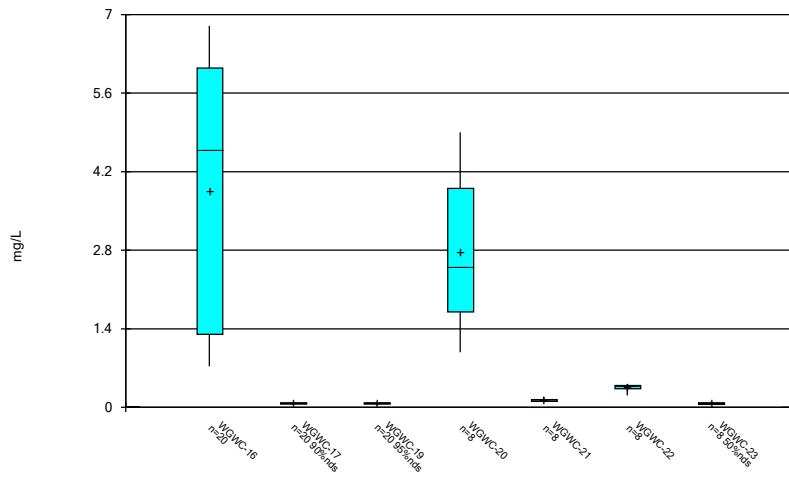
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Box & Whiskers Plot



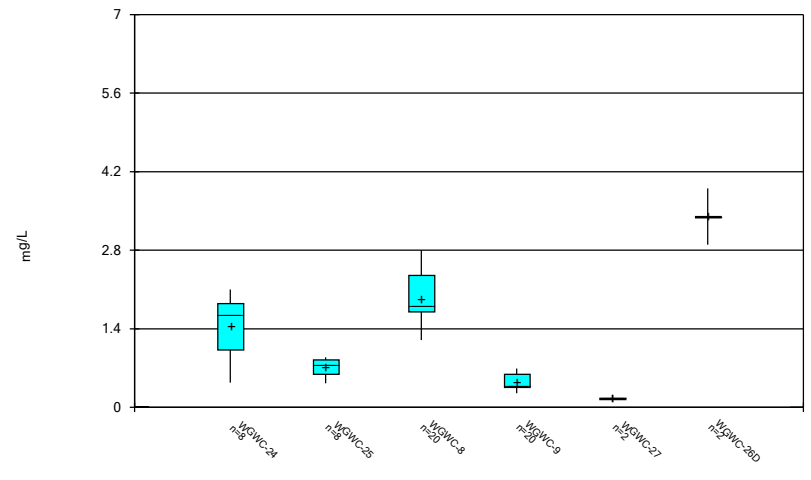
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Box & Whiskers Plot



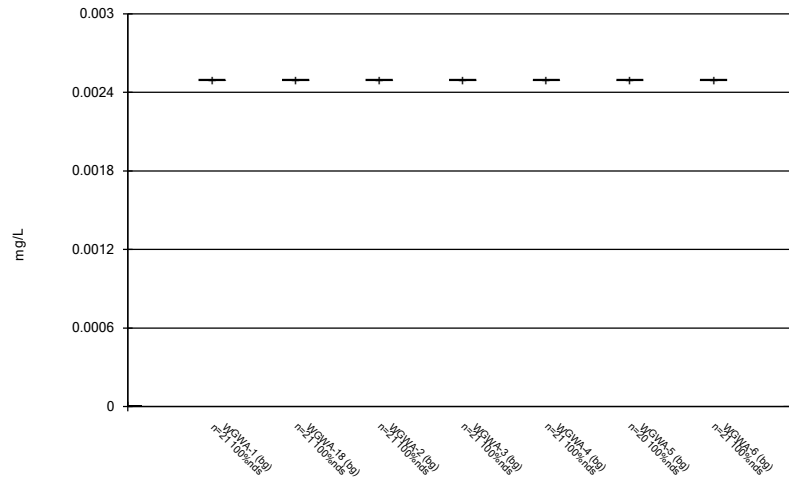
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



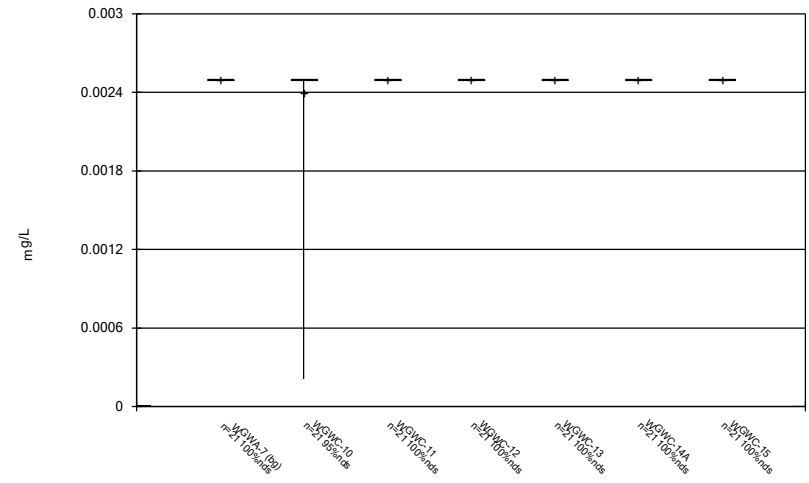
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



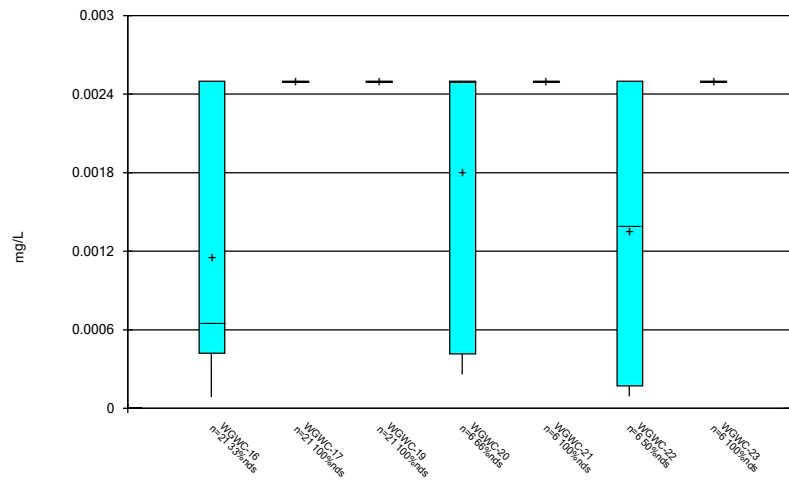
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Box & Whiskers Plot



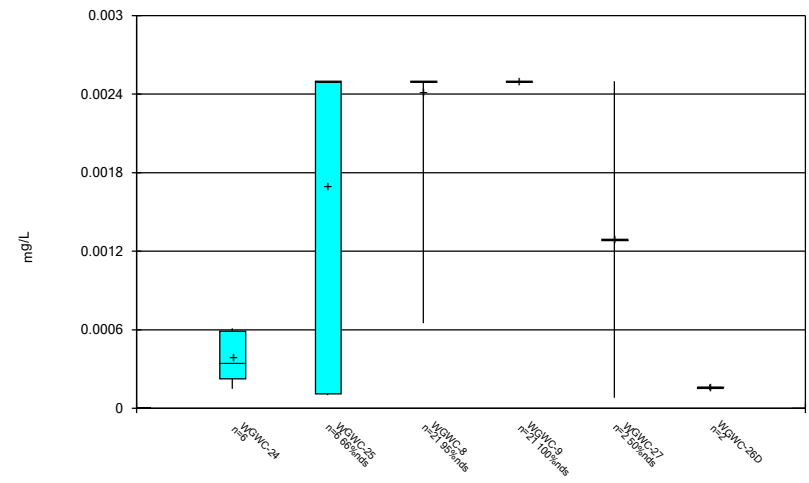
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Box & Whiskers Plot



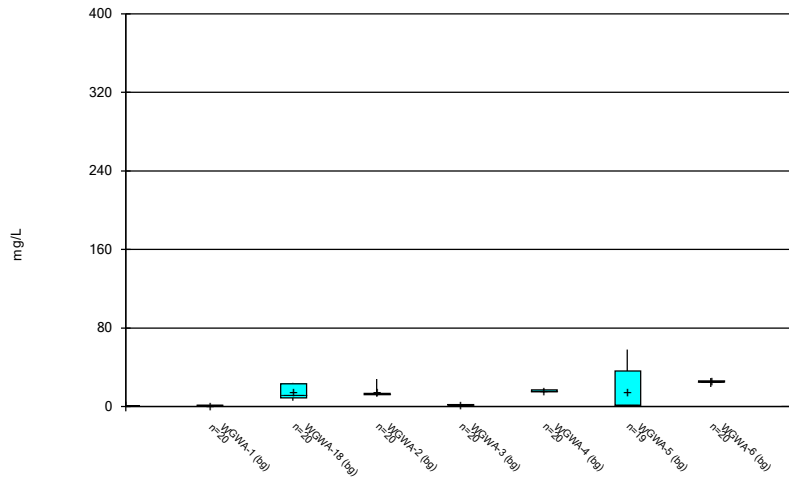
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Box & Whiskers Plot



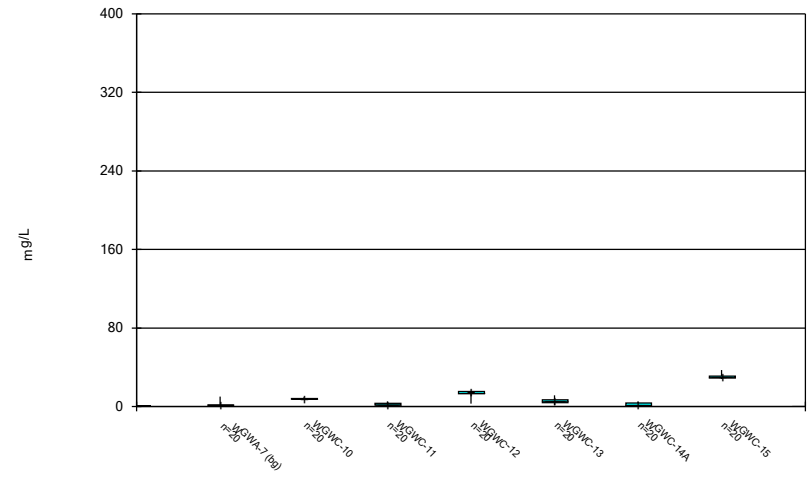
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Box & Whiskers Plot



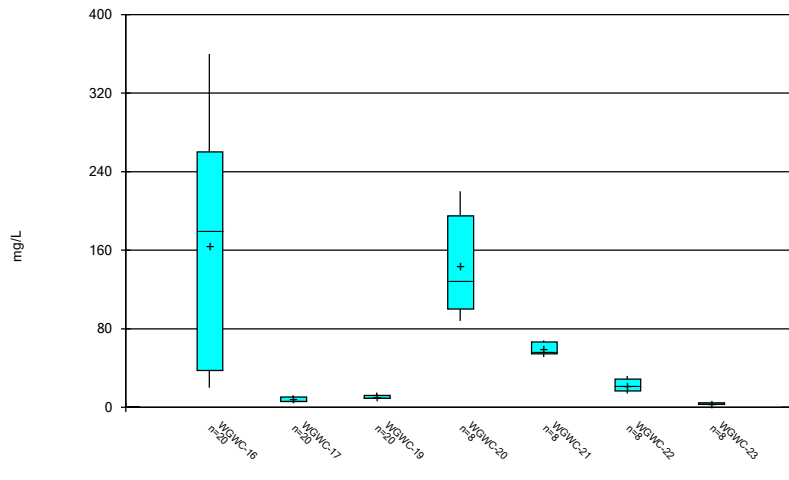
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Box & Whiskers Plot



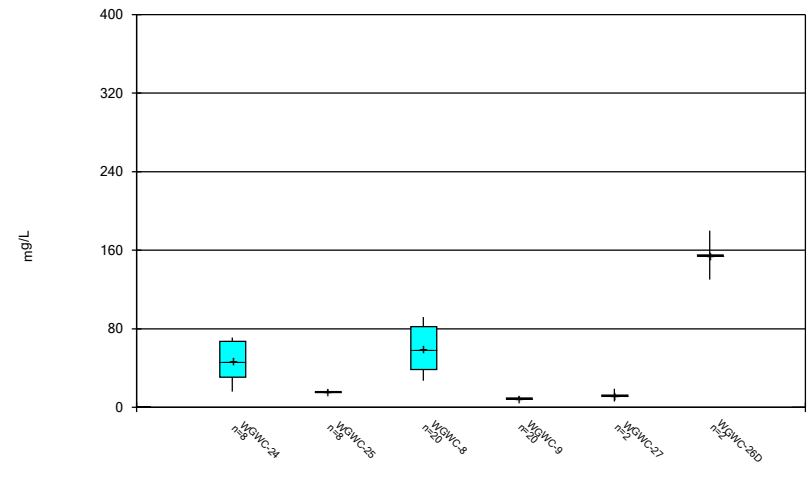
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Box & Whiskers Plot



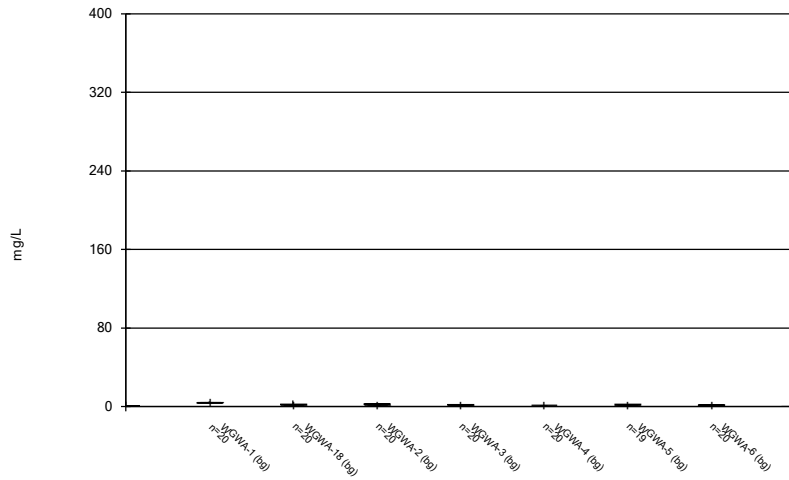
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Box & Whiskers Plot



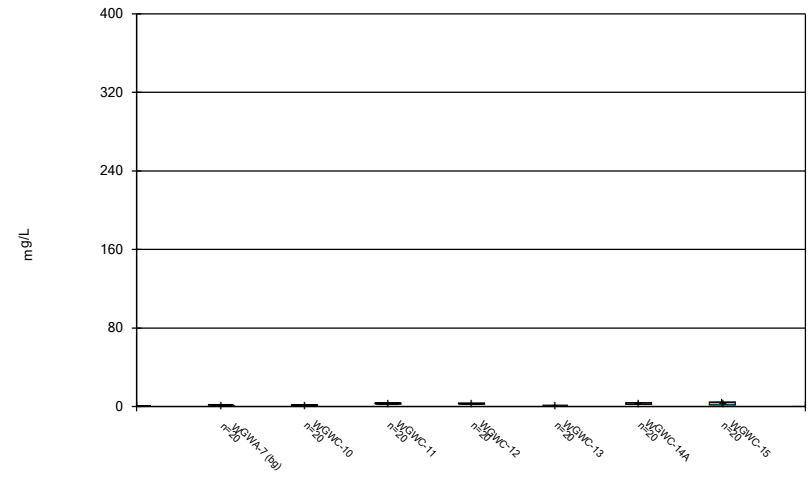
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Box & Whiskers Plot



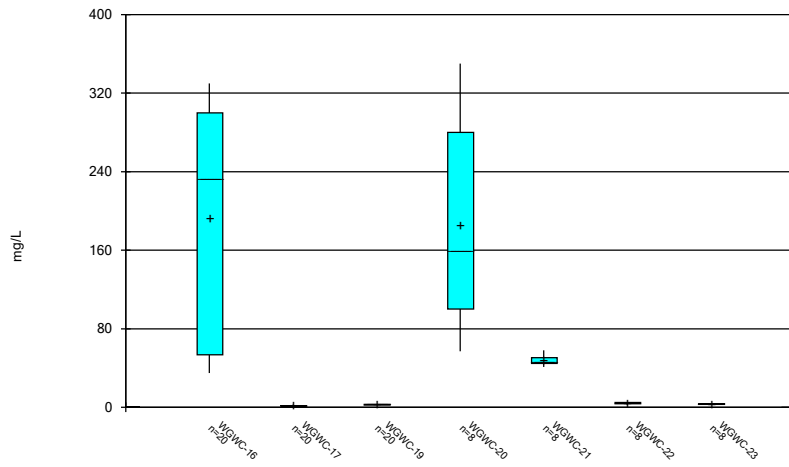
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Box & Whiskers Plot



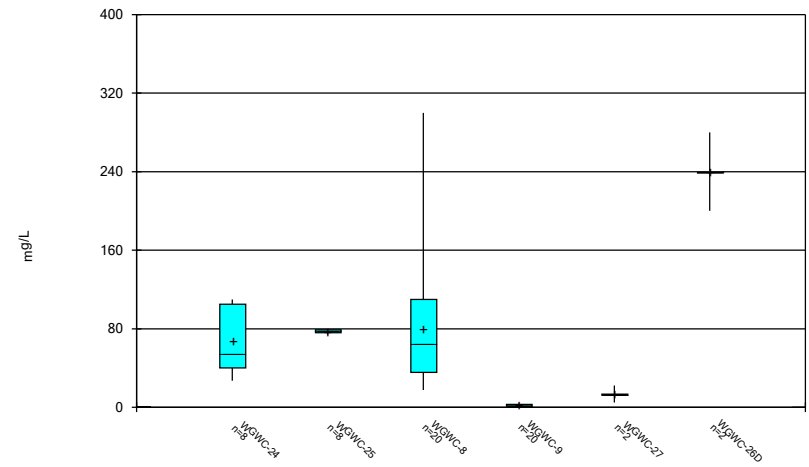
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Box & Whiskers Plot



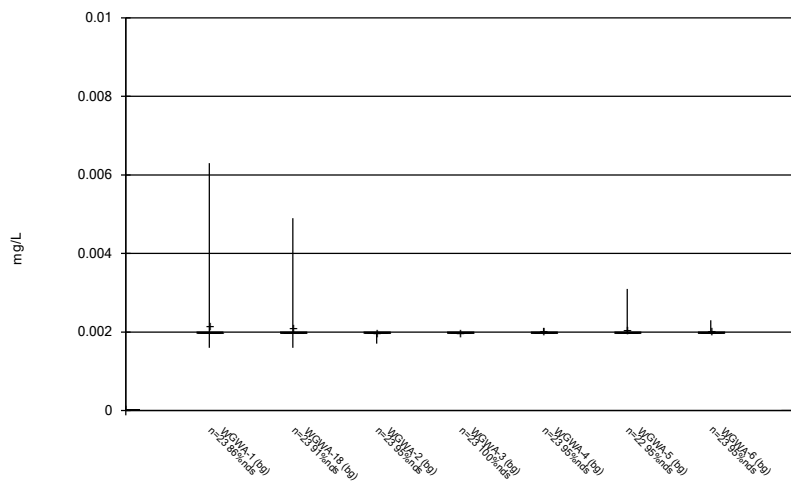
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Box & Whiskers Plot



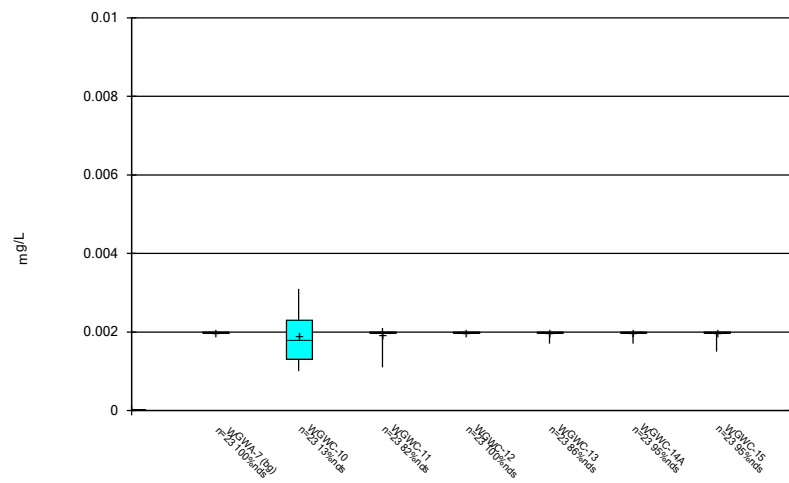
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Box & Whiskers Plot



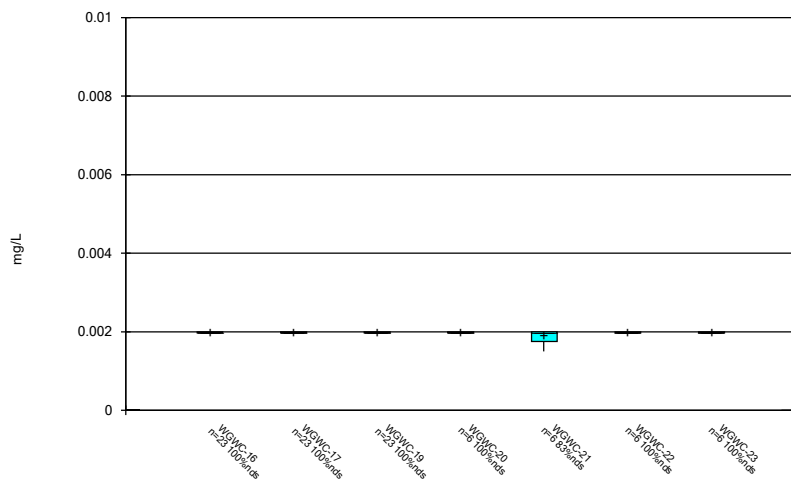
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Box & Whiskers Plot



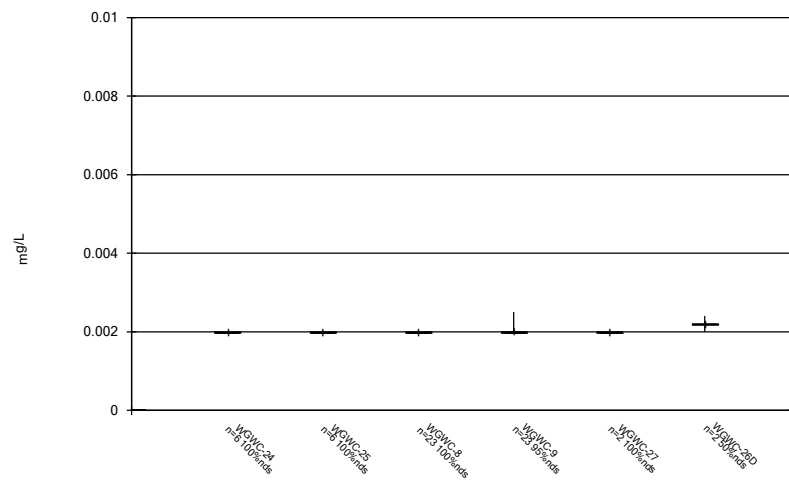
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Box & Whiskers Plot



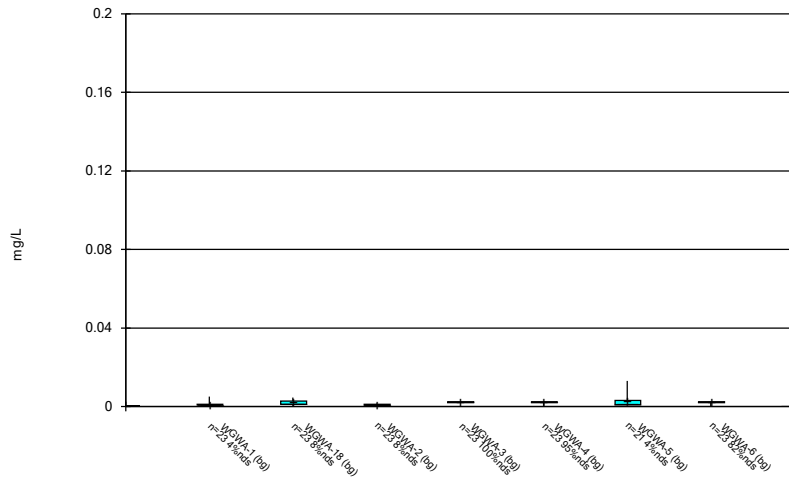
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Box & Whiskers Plot



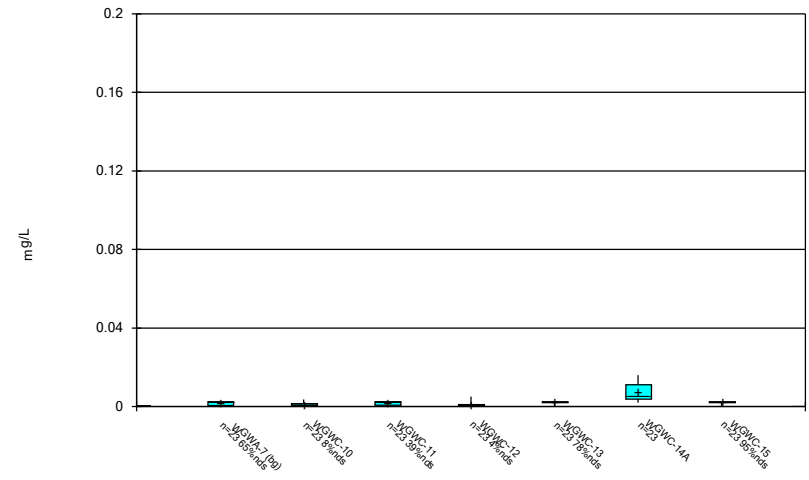
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Box & Whiskers Plot



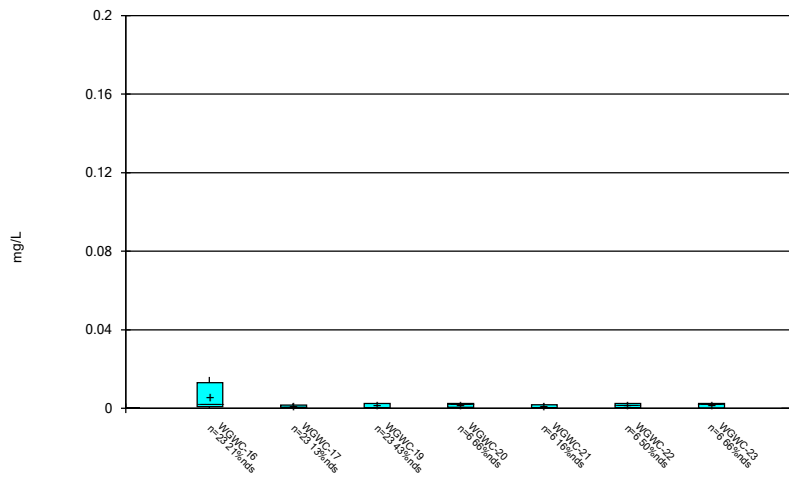
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Box & Whiskers Plot



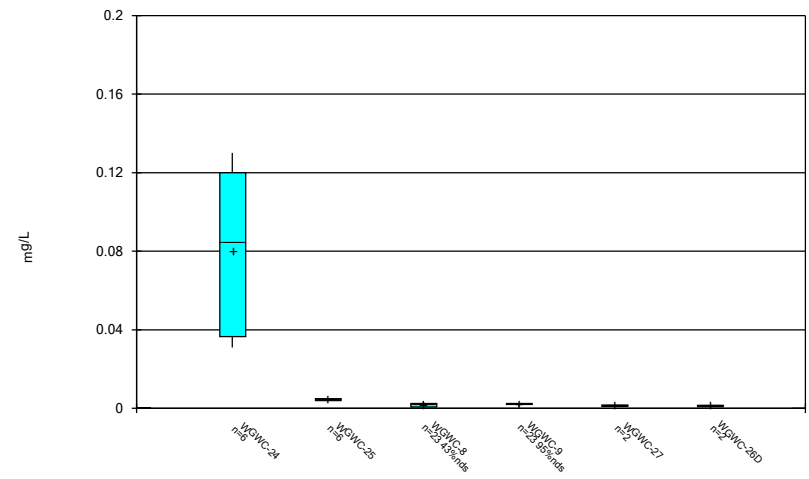
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Box & Whiskers Plot



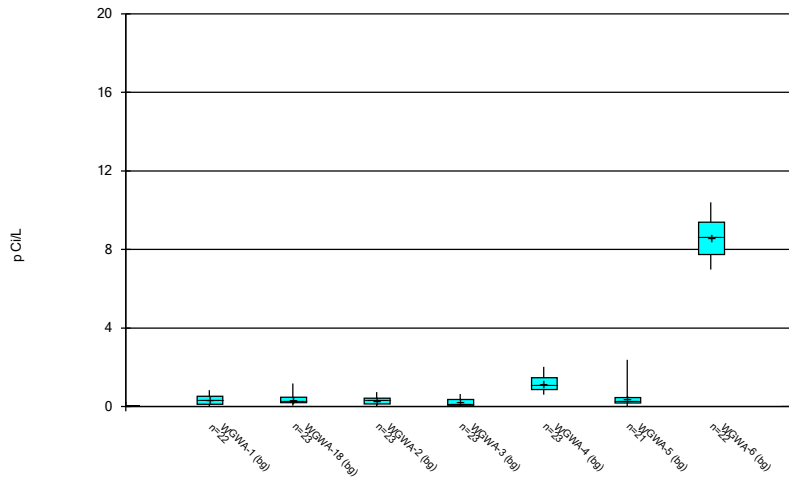
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Box & Whiskers Plot



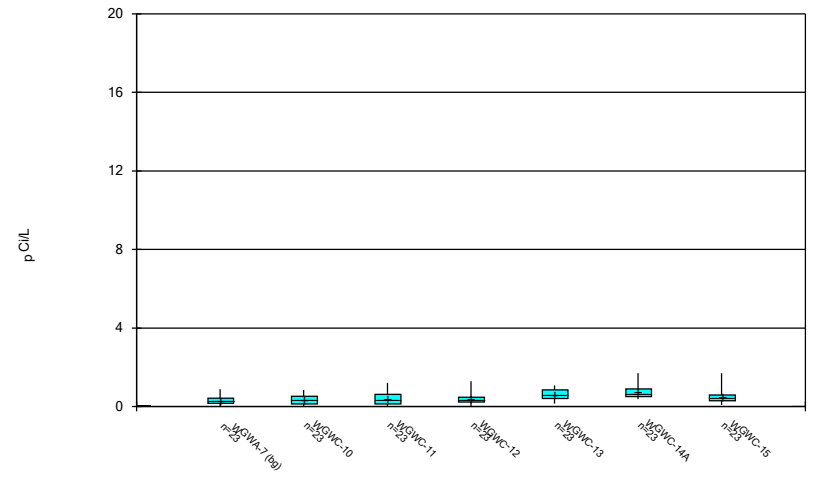
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Box & Whiskers Plot



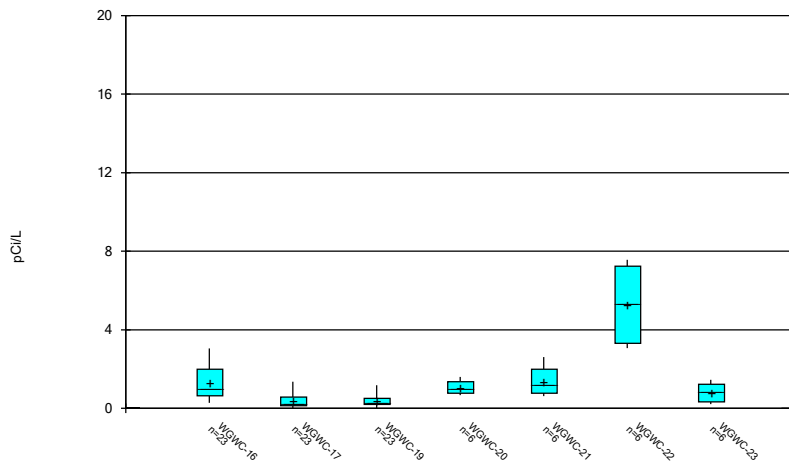
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Box & Whiskers Plot



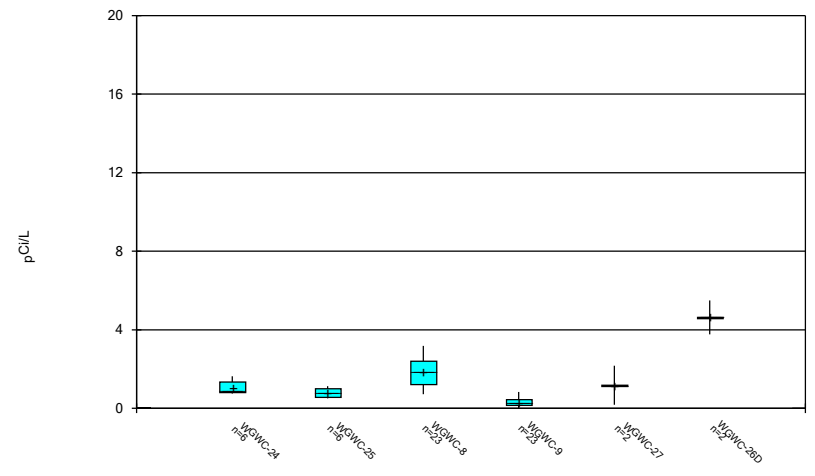
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Box & Whiskers Plot



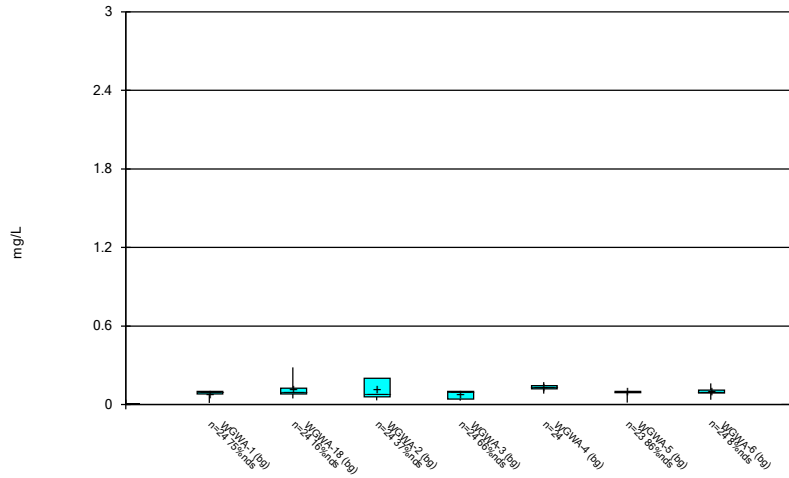
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Box & Whiskers Plot



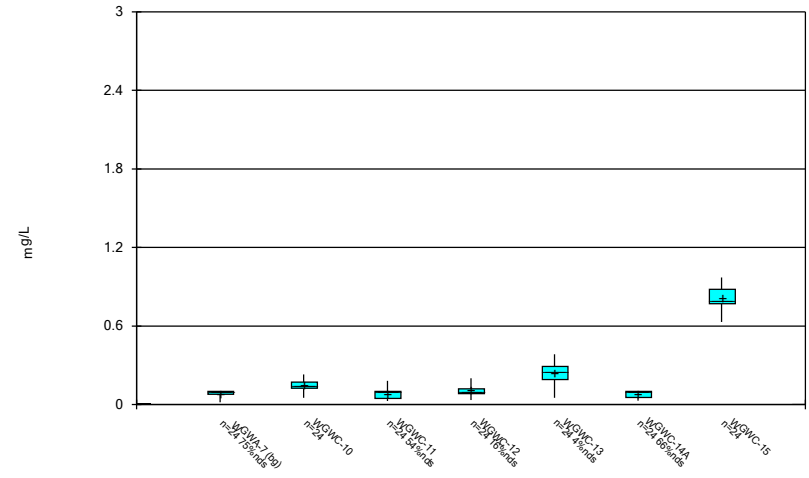
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Box & Whiskers Plot



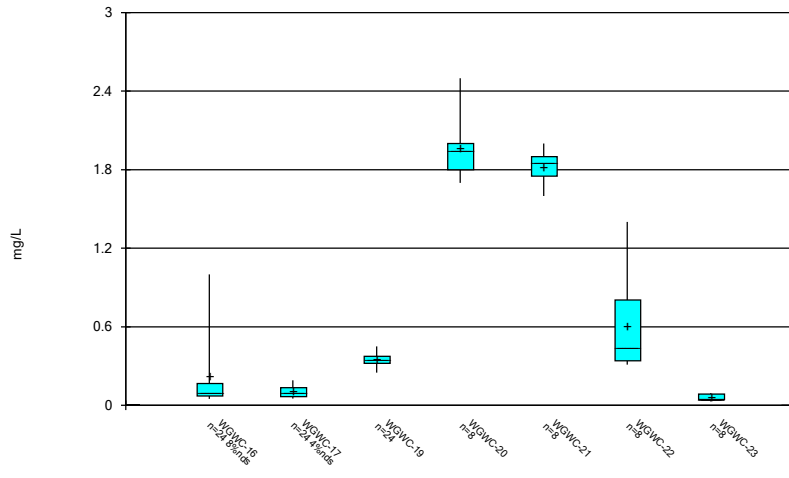
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



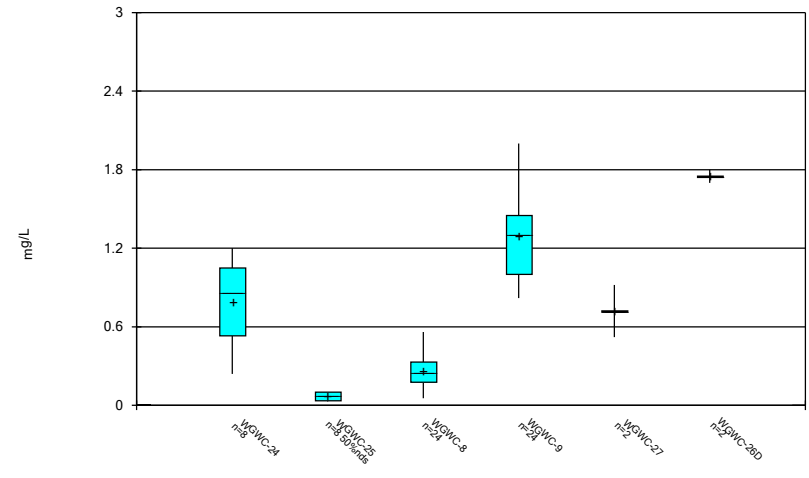
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Box & Whiskers Plot



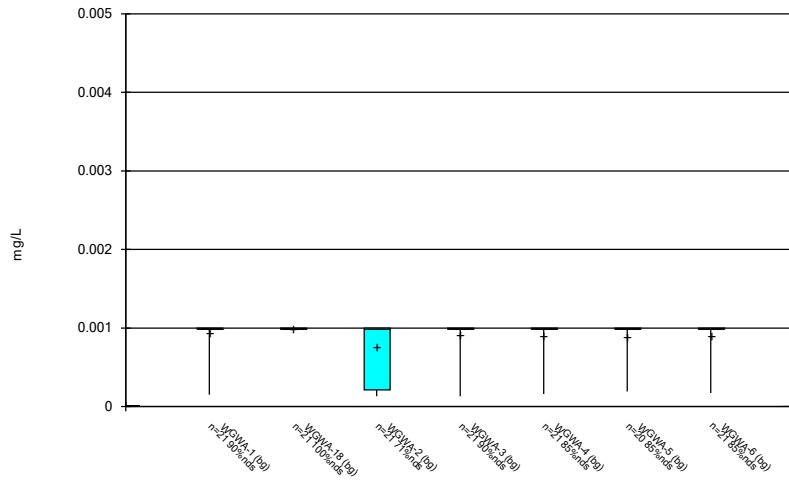
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Box & Whiskers Plot



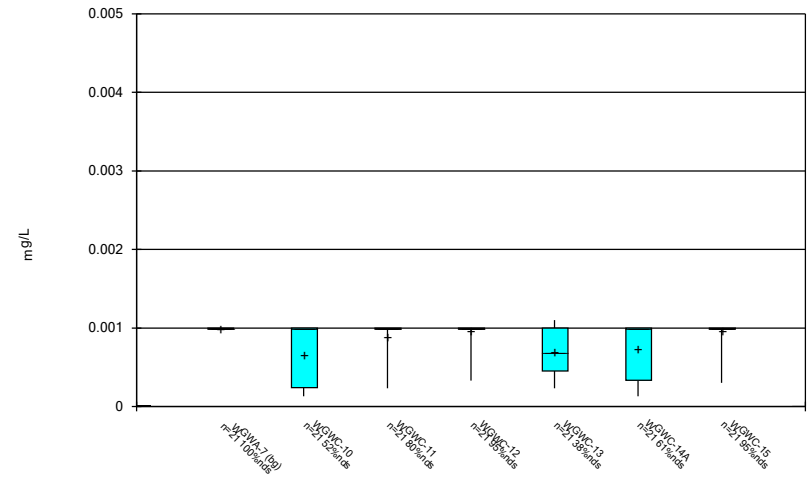
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



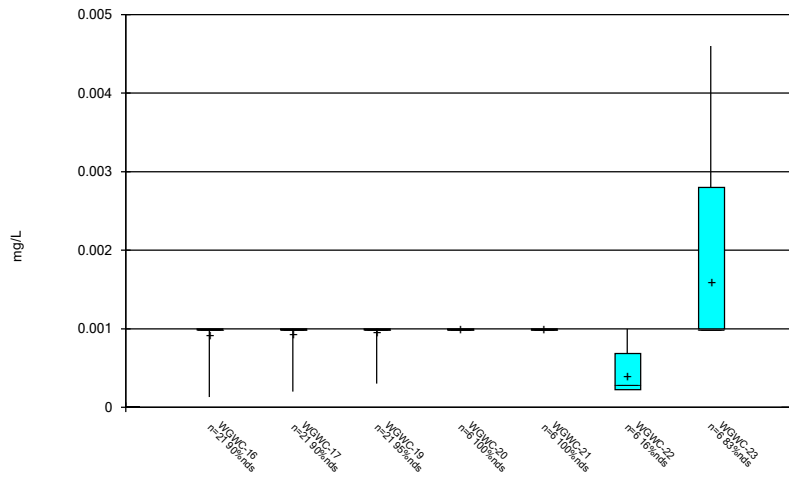
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Box & Whiskers Plot



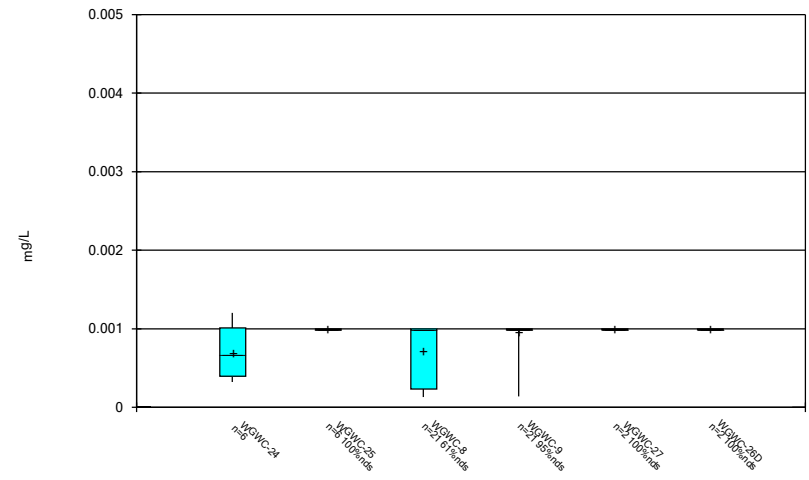
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



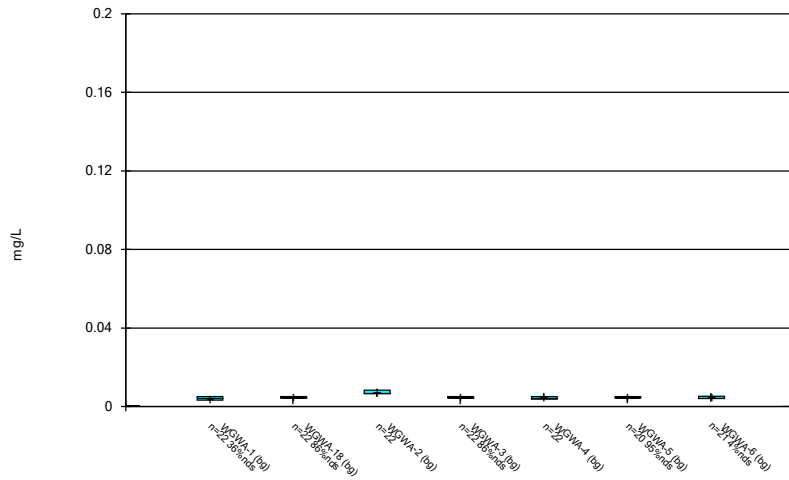
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Box & Whiskers Plot



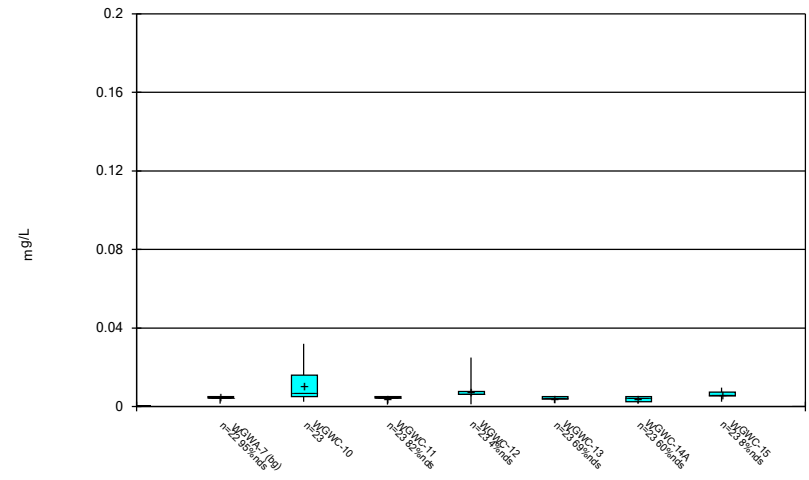
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Box & Whiskers Plot



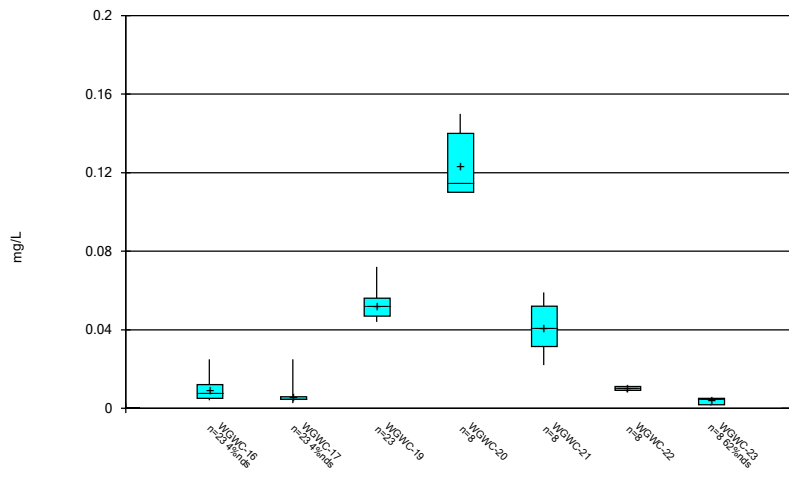
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



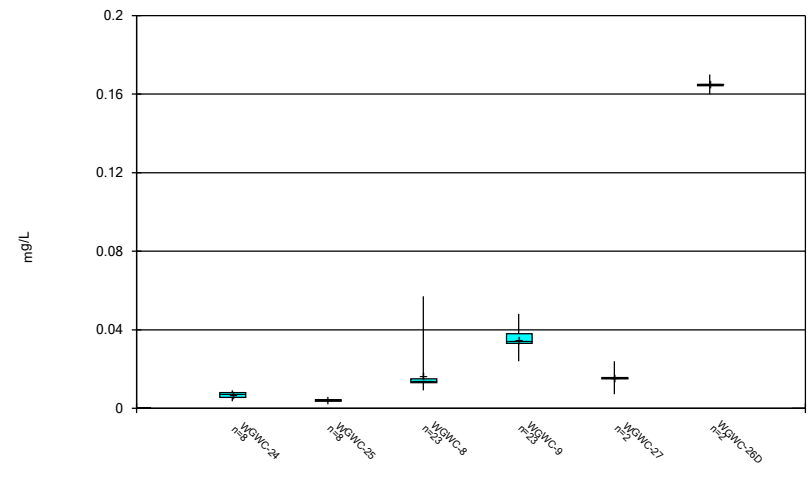
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Box & Whiskers Plot



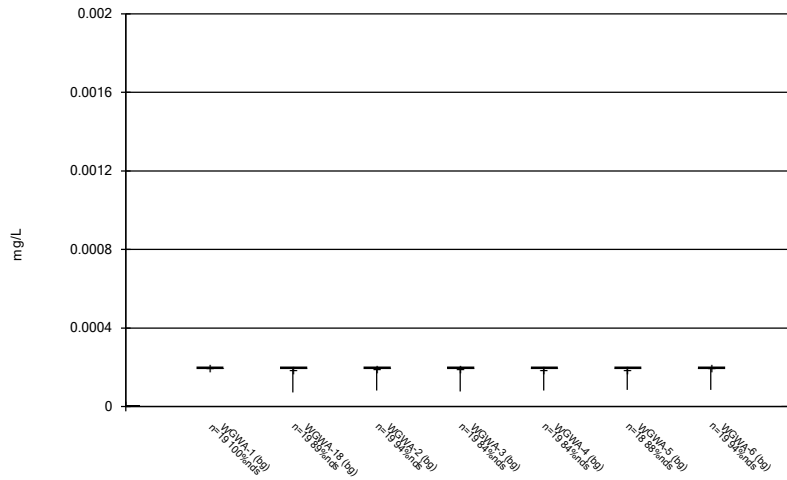
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



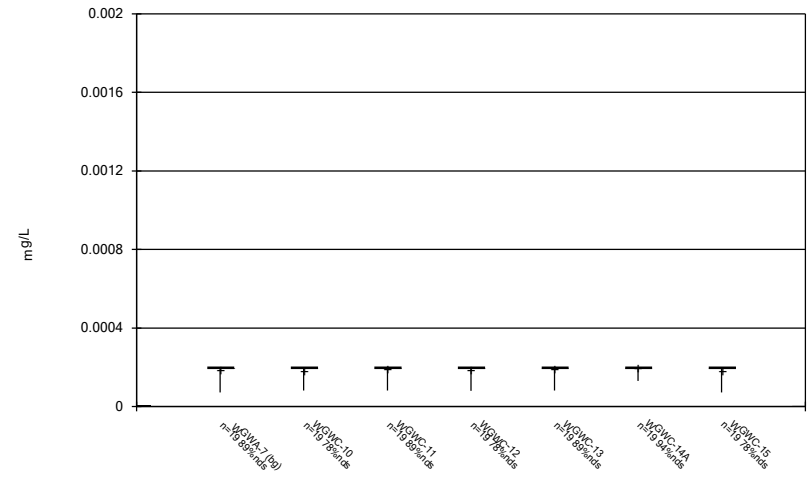
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



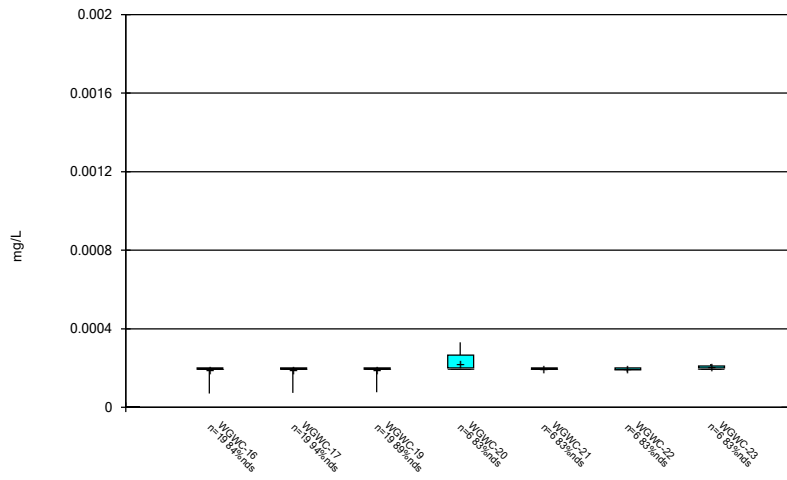
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Box & Whiskers Plot



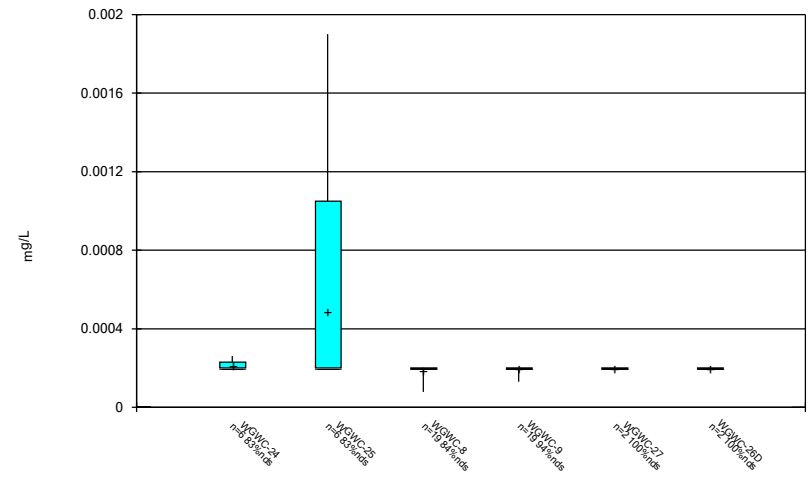
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Box & Whiskers Plot



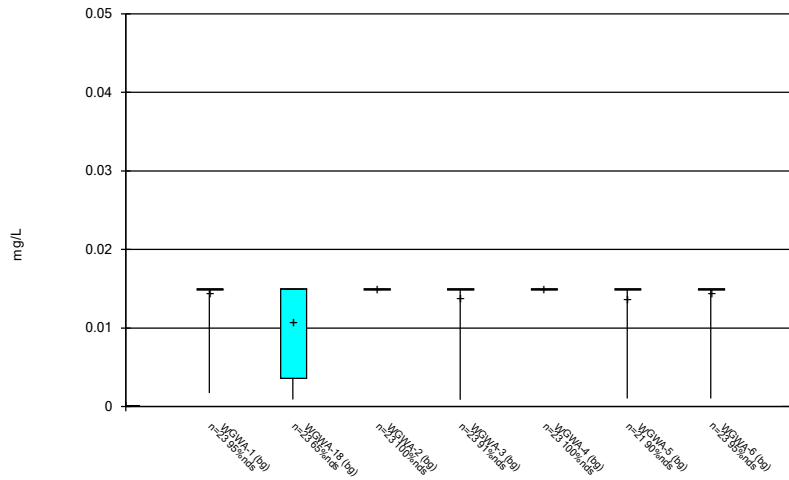
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Box & Whiskers Plot



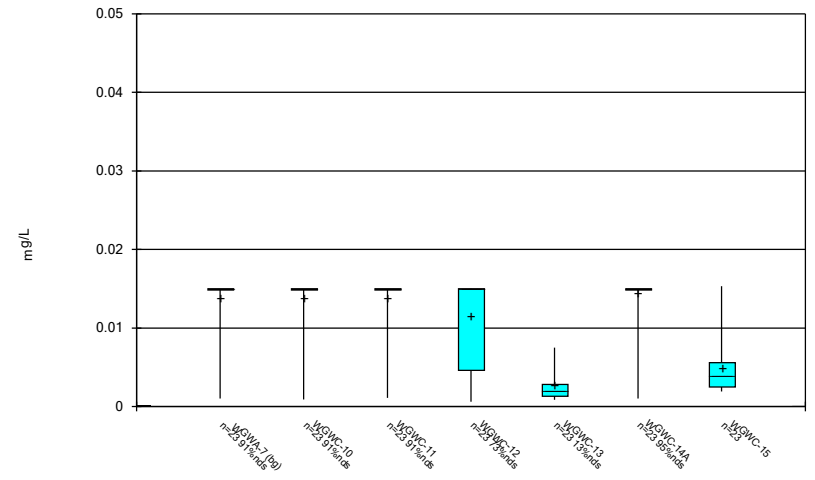
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Box & Whiskers Plot



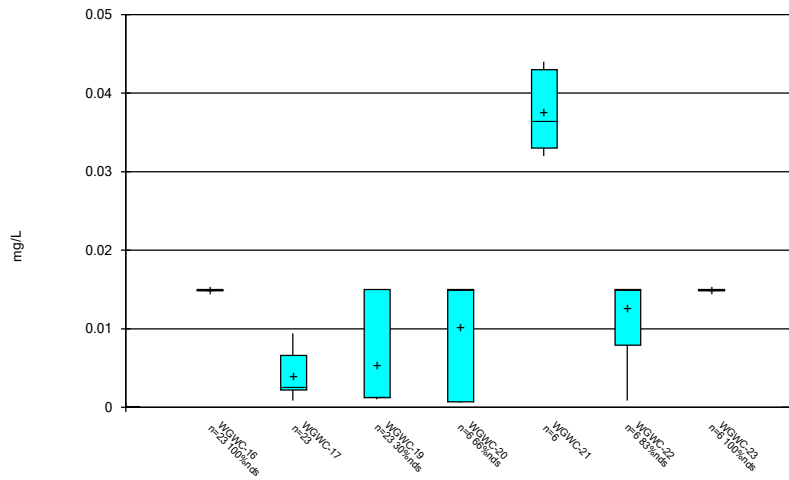
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



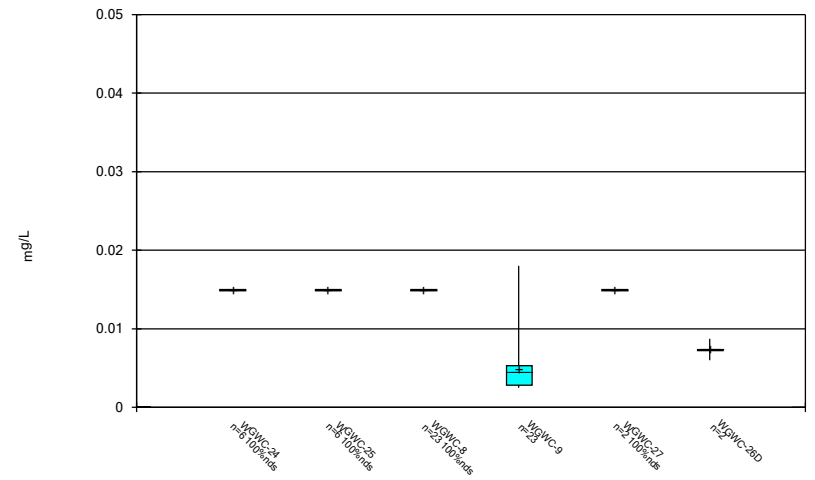
Constituent: Molybdenum Analysis Run 4/24/2023 11:59 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



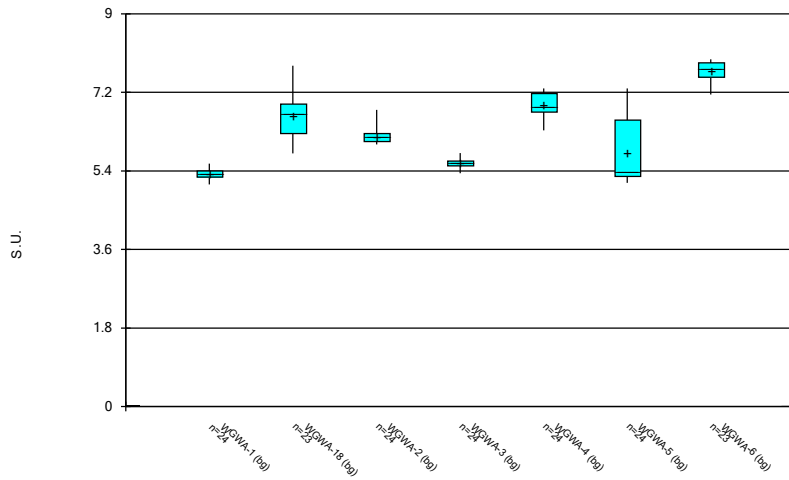
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



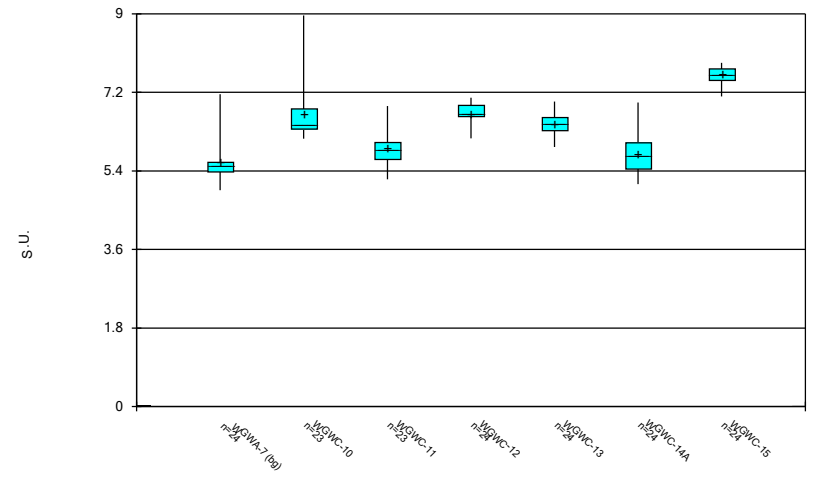
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



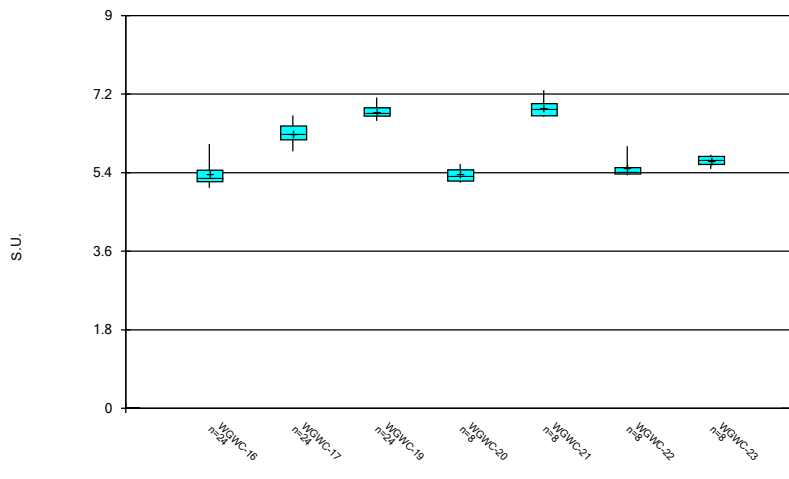
Constituent: pH, Field Analysis Run 4/24/2023 11:59 AM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



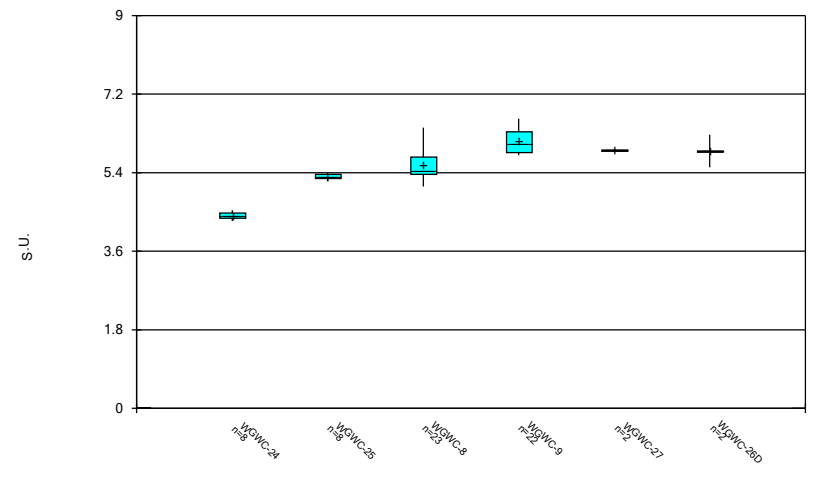
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



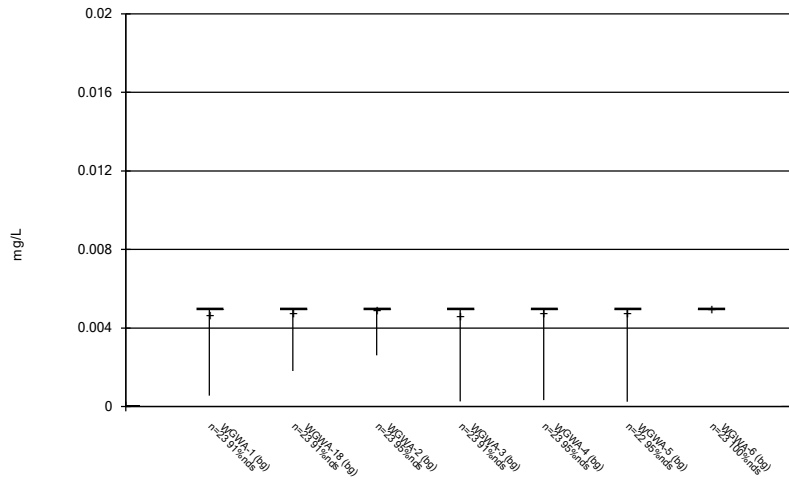
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



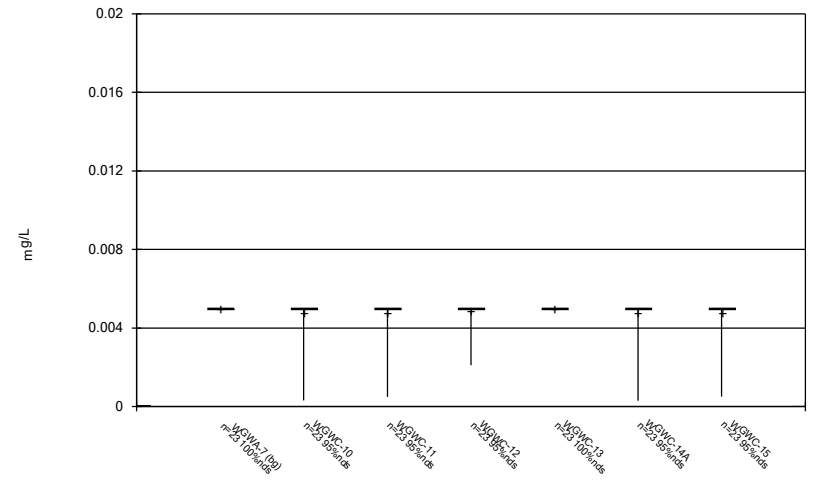
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



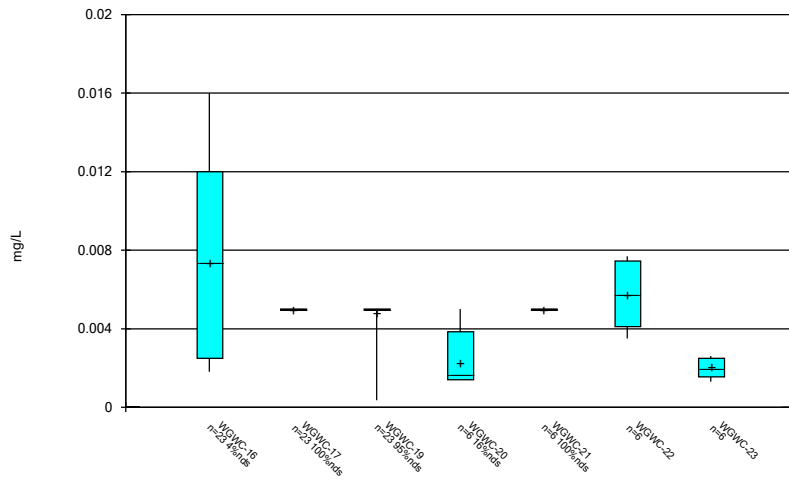
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



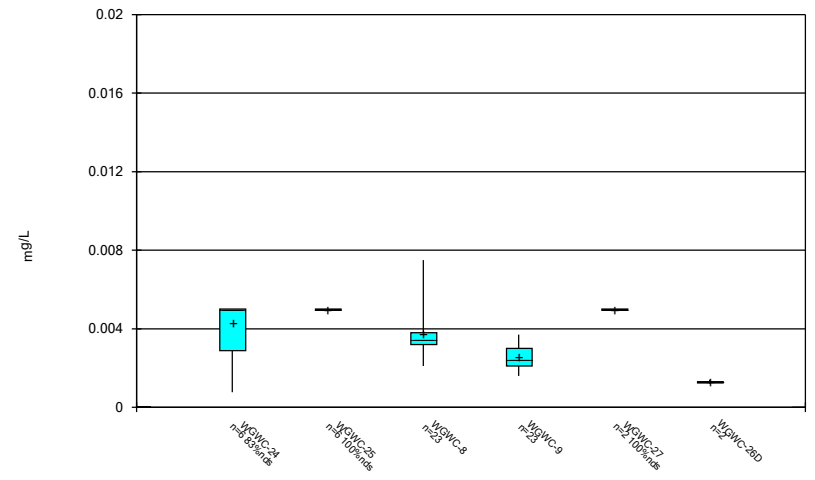
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



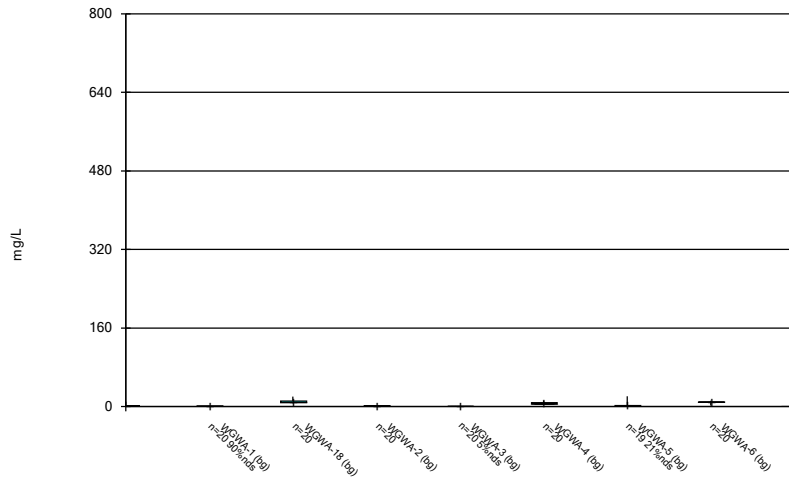
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



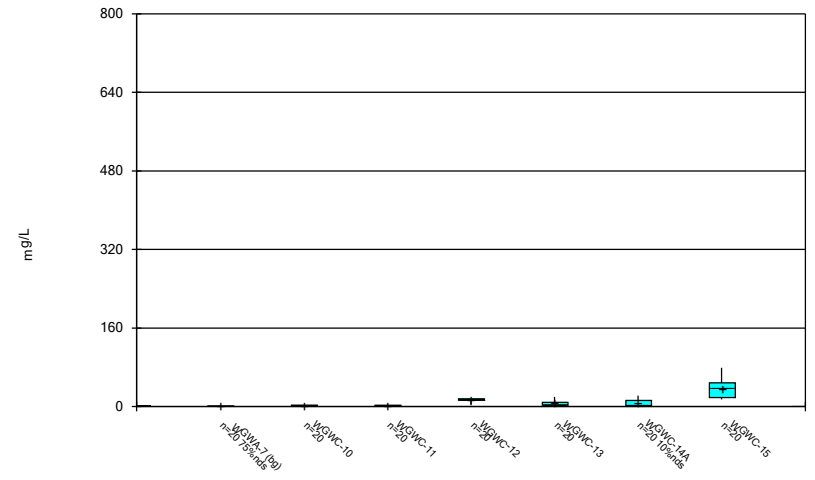
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



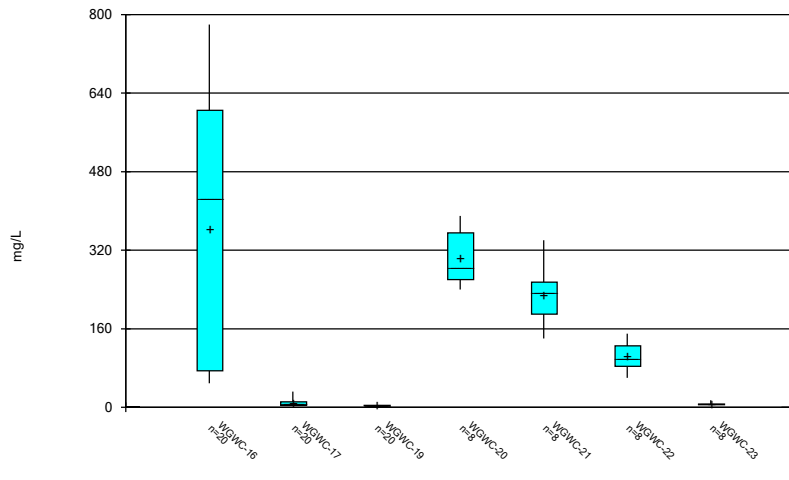
Constituent: Sulfate as SO4 Analysis Run 4/24/2023 11:59 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



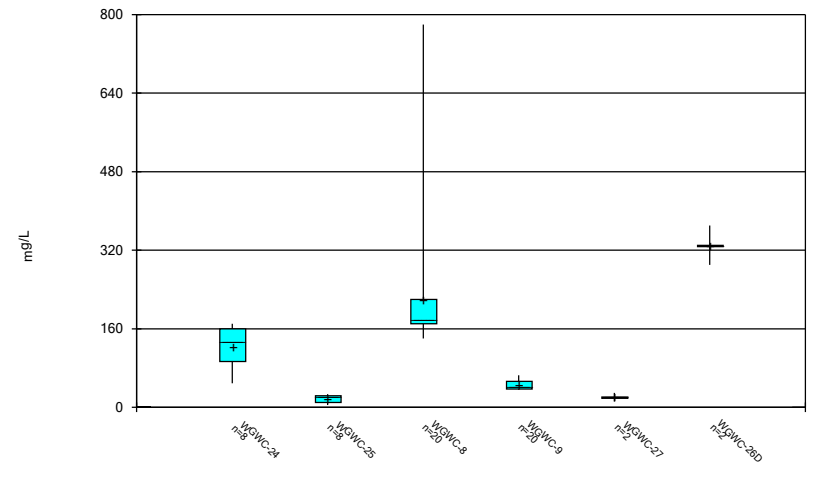
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



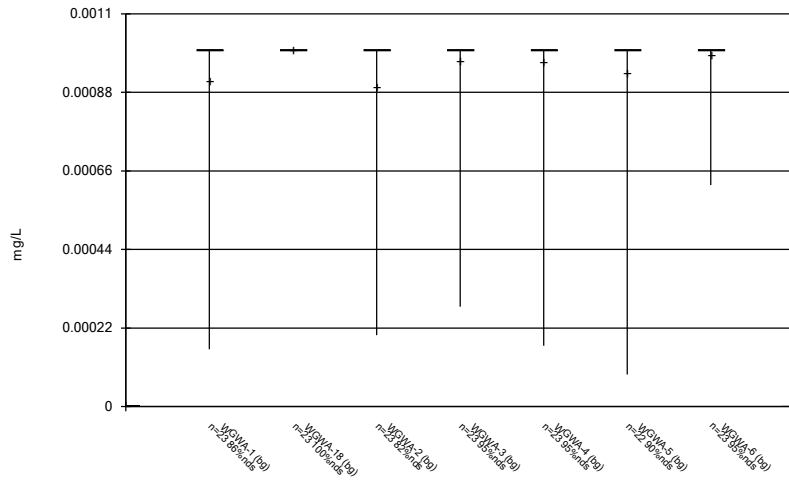
Constituent: Sulfate as SO4 Analysis Run 4/24/2023 11:59 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



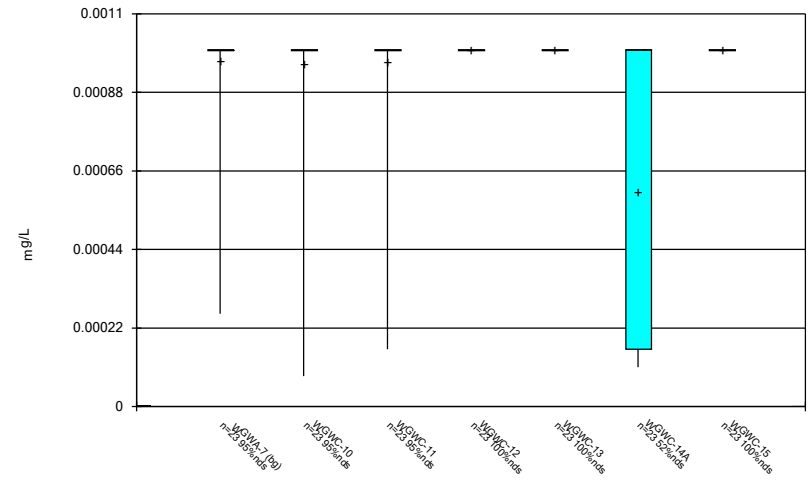
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



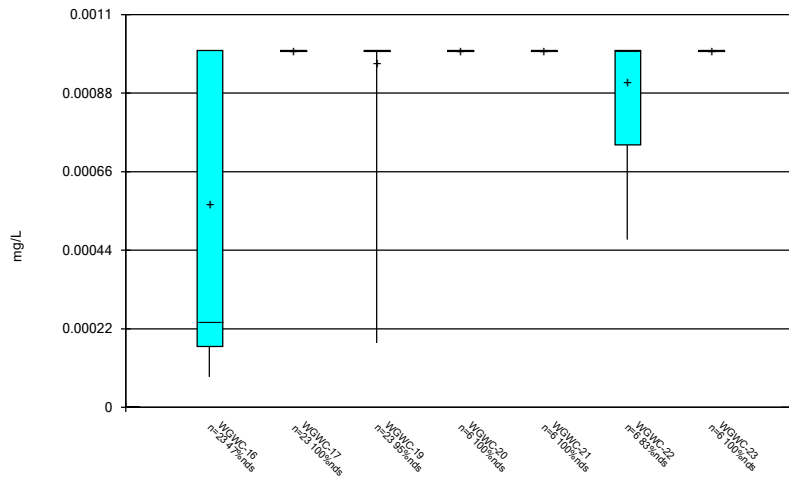
Constituent: Thallium Analysis Run 4/24/2023 11:59 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



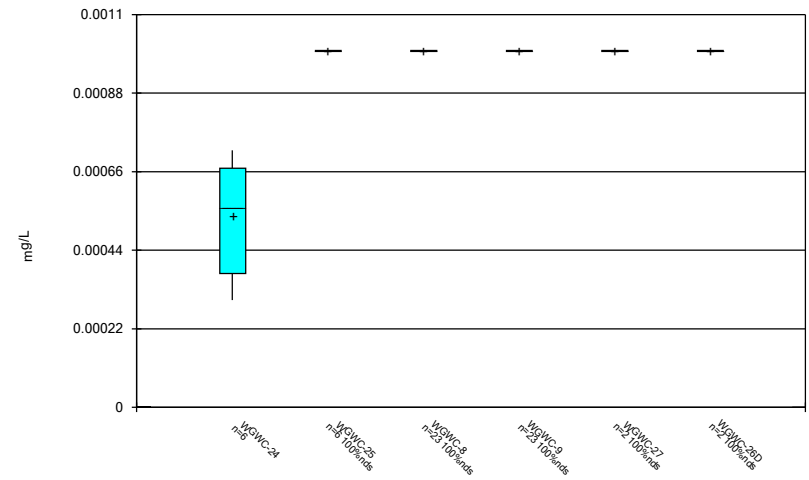
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



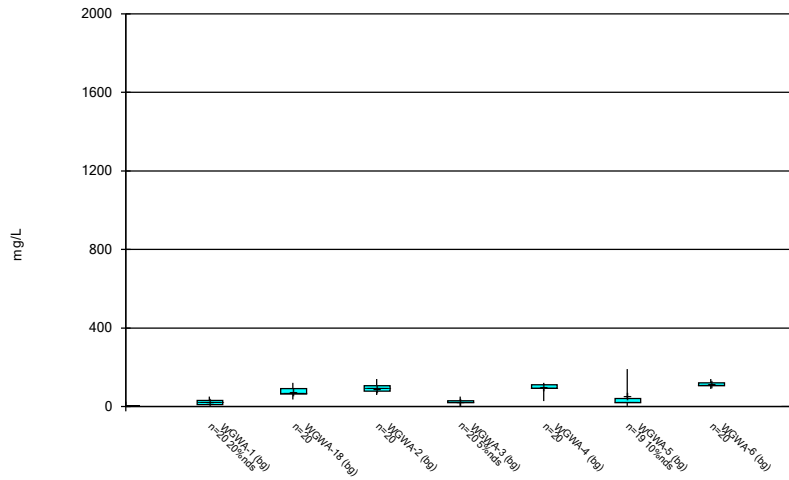
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



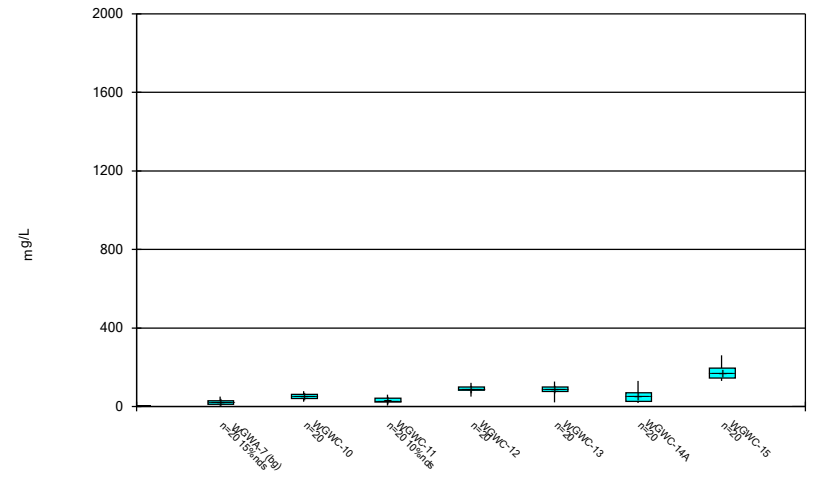
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



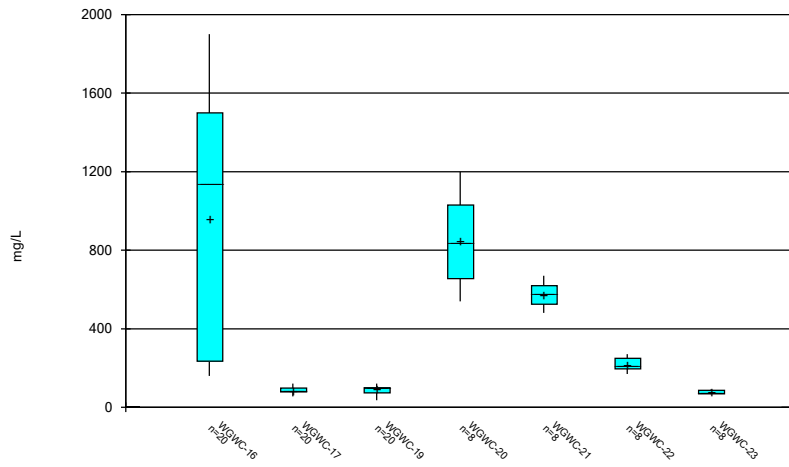
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/24/2023 11:59 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



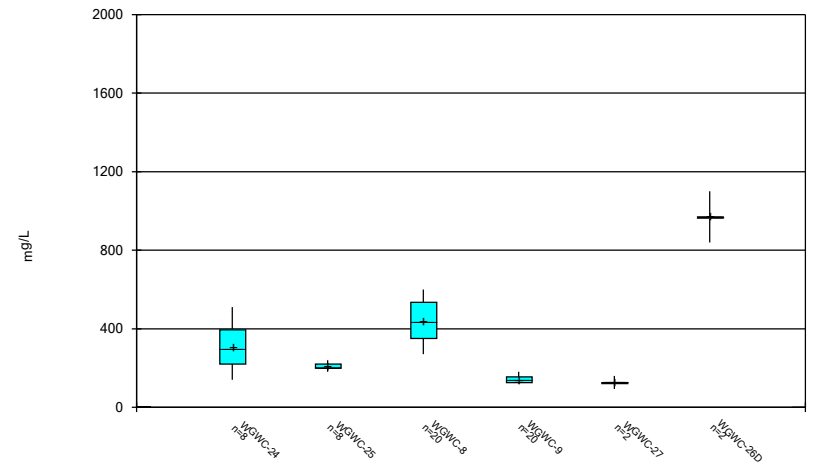
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/24/2023 11:59 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/24/2023 11:59 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/24/2023 11:59 AM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE C.

Outlier Summary

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/20/2023, 12:32 PM

	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			<0.005 (O)	<0.005 (O)	<0.05 (O)					
5/18/2016						<0.005 (O)	<0.05 (O)	<0.005 (O)	<0.005 (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)	

	WGWA-7 Lithium (mg/L)	WGWA-5 Molybdenum (mg/L)
5/17/2016		
5/18/2016	<0.005 (O)	
7/19/2016		
9/14/2016	0.016 (O)	
1/19/2017		
3/14/2017		
9/16/2019		

FIGURE D.

Interwell Prediction Limit - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/20/2023, 12:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-16	0.1	n/a	2/15/2023	0.86	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-20	0.1	n/a	2/16/2023	3.5	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-21	0.1	n/a	2/16/2023	0.14	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-22	0.1	n/a	2/15/2023	0.39	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-24	0.1	n/a	2/15/2023	1.4	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-25	0.1	n/a	2/15/2023	0.89	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	2/16/2023	2.8	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	2/15/2023	0.69	Yes	159	n/a	n/a	94.34	n/a	n/a	0.00007737	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-20	58	n/a	2/16/2023	190	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-21	58	n/a	2/16/2023	68	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	2/16/2023	92	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	2/15/2023	42	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-20	6.05	n/a	2/16/2023	230	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-21	6.05	n/a	2/16/2023	51	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-24	6.05	n/a	2/15/2023	39	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-25	6.05	n/a	2/15/2023	79	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	2/16/2023	120	Yes	159	n/a	n/a	0	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	2/15/2023	0.73	Yes	191	n/a	n/a	45.55	n/a	n/a	0.00005418	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	2/16/2023	0.33	Yes	191	n/a	n/a	45.55	n/a	n/a	0.00005418	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-20	0.284	n/a	2/16/2023	1.9	Yes	191	n/a	n/a	45.55	n/a	n/a	0.00005418	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-21	0.284	n/a	2/16/2023	1.9	Yes	191	n/a	n/a	45.55	n/a	n/a	0.00005418	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-22	0.284	n/a	2/15/2023	0.31	Yes	191	n/a	n/a	45.55	n/a	n/a	0.00005418	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-24	0.284	n/a	2/15/2023	0.63	Yes	191	n/a	n/a	45.55	n/a	n/a	0.00005418	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	2/15/2023	0.85	Yes	191	n/a	n/a	45.55	n/a	n/a	0.00005418	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-24	7.96	4.96	2/15/2023	4.54	Yes	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	2/15/2023	54	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-20	21	n/a	2/16/2023	350	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-21	21	n/a	2/16/2023	340	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-22	21	n/a	2/15/2023	110	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-24	21	n/a	2/15/2023	120	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-25	21	n/a	2/15/2023	27	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	2/16/2023	250	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	2/15/2023	65	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	190	n/a	2/16/2023	960	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	190	n/a	2/16/2023	630	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-22	190	n/a	2/15/2023	210	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-24	190	n/a	2/15/2023	230	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-25	190	n/a	2/15/2023	200	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	2/16/2023	590	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2

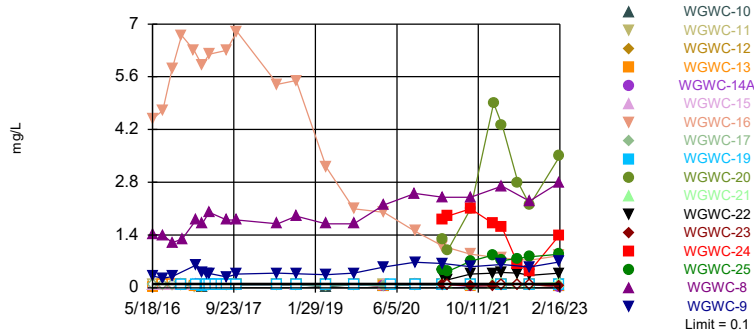
Interwell Prediction Limit - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/20/2023, 12:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (S.U.)	WGWC-10	7.96	4.96	2/16/2023	6.39	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-11	7.96	4.96	2/16/2023	5.69	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-12	7.96	4.96	2/16/2023	6.61	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-13	7.96	4.96	2/16/2023	6.27	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-14A	7.96	4.96	2/16/2023	5.4	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-15	7.96	4.96	2/15/2023	7.72	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-16	7.96	4.96	2/15/2023	5.19	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-17	7.96	4.96	2/16/2023	6.28	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-19	7.96	4.96	2/16/2023	6.8	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-20	7.96	4.96	2/16/2023	5.17	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-21	7.96	4.96	2/16/2023	6.92	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-22	7.96	4.96	2/15/2023	5.47	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-23	7.96	4.96	2/15/2023	5.49	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-24	7.96	4.96	2/15/2023	4.54	Yes	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-25	7.96	4.96	2/15/2023	5.36	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-8	7.96	4.96	2/16/2023	5.22	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-9	7.96	4.96	2/15/2023	5.86	No	190	n/a	n/a	0	n/a	n/a	0.0001095	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-10	21	n/a	2/16/2023	1.8	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-11	21	n/a	2/16/2023	1	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-12	21	n/a	2/16/2023	2.8	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-13	21	n/a	2/16/2023	2.3	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-14A	21	n/a	2/16/2023	0.47J	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-15	21	n/a	2/15/2023	14	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	2/15/2023	54	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-17	21	n/a	2/16/2023	2.6	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-19	21	n/a	2/16/2023	3	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-20	21	n/a	2/16/2023	350	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-21	21	n/a	2/16/2023	340	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-22	21	n/a	2/15/2023	110	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-23	21	n/a	2/15/2023	5.2	No	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-24	21	n/a	2/15/2023	120	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-25	21	n/a	2/15/2023	27	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	2/16/2023	250	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	2/15/2023	65	Yes	159	n/a	n/a	23.9	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-10	190	n/a	2/16/2023	54	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-11	190	n/a	2/16/2023	33	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-12	190	n/a	2/16/2023	89	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-13	190	n/a	2/16/2023	81	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-14A	190	n/a	2/16/2023	27	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-15	190	n/a	2/15/2023	130	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	190	n/a	2/15/2023	160	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-17	190	n/a	2/16/2023	77	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-19	190	n/a	2/16/2023	100	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	190	n/a	2/16/2023	960	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	190	n/a	2/16/2023	630	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-22	190	n/a	2/15/2023	210	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-23	190	n/a	2/15/2023	71	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-24	190	n/a	2/15/2023	230	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-25	190	n/a	2/15/2023	200	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	2/16/2023	590	Yes	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-9	190	n/a	2/15/2023	160	No	159	n/a	n/a	6.289	n/a	n/a	0.00007737	NP Inter (normality) 1 of 2

Exceeds Limit: WGWC-16, WGWC-20,
WGWC-21, WGWC-22, WGWC-24, WGWC-
25, WGWC-8, WGWC-9

Prediction Limit
Interwell Non-parametric

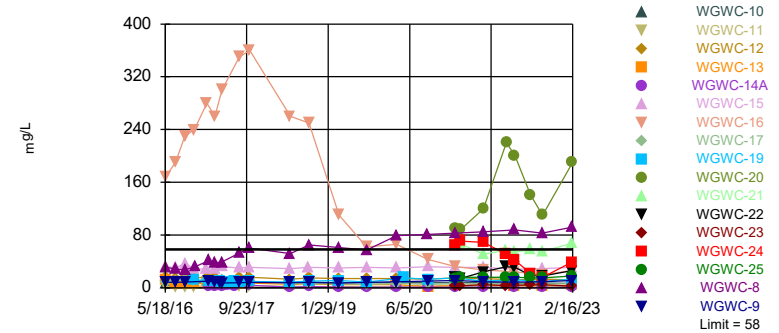


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 159 background values. 94.34% NDs. Annual per-constituent alpha = 0.002627. Individual comparison alpha = 0.00007737 (1 of 2). Comparing 17 points to limit.

Constituent: Boron, total Analysis Run 4/20/2023 12:38 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-20, WGWC-21,
WGWC-8

Prediction Limit
Interwell Non-parametric

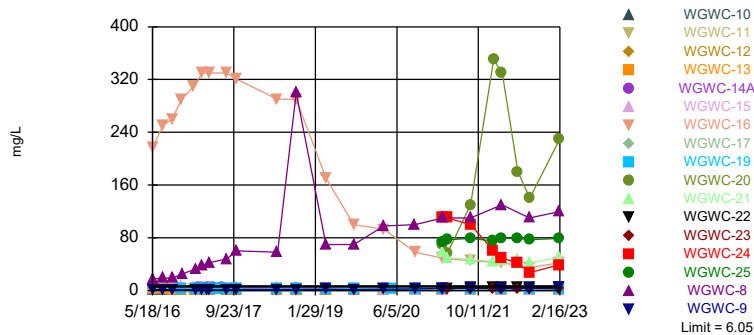


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 159 background values. Annual per-constituent alpha = 0.002627. Individual comparison alpha = 0.00007737 (1 of 2). Comparing 17 points to limit.

Constituent: Calcium, total Analysis Run 4/20/2023 12:38 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-16, WGWC-20,
WGWC-21, WGWC-24, WGWC-25, WGWC-
8

Prediction Limit
Interwell Non-parametric

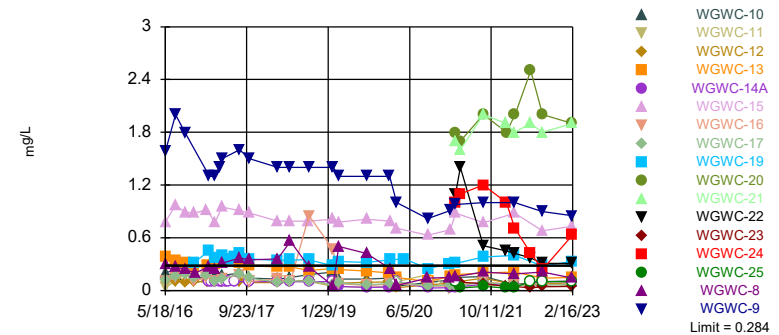


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 159 background values. Annual per-constituent alpha = 0.002627. Individual comparison alpha = 0.00007737 (1 of 2). Comparing 17 points to limit.

Constituent: Chloride, Total Analysis Run 4/20/2023 12:38 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-15, WGWC-19,
WGWC-20, WGWC-21, WGWC-22, WGWC-
24, WGWC-9

Prediction Limit
Interwell Non-parametric

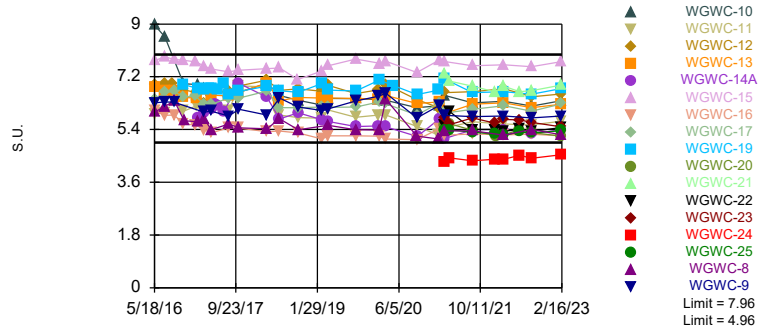


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 191 background values. 45.55% NDs. Annual per-constituent alpha = 0.00184. Individual comparison alpha = 0.00005418 (1 of 2). Comparing 17 points to limit.

Constituent: Fluoride, total Analysis Run 4/20/2023 12:38 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limits: WGWC-24

Prediction Limit
Interwell Non-parametric



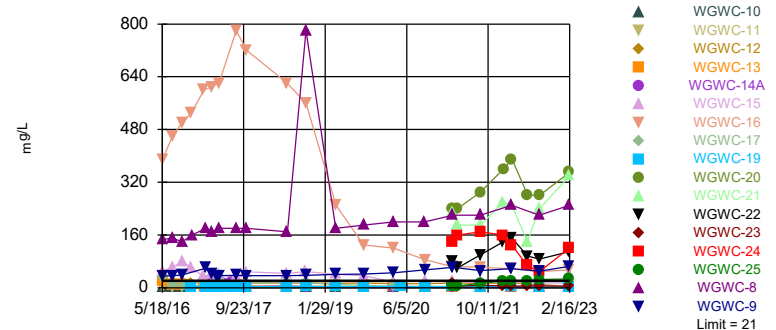
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 190 background values. Annual per-constituent alpha = 0.003719. Individual comparison alpha = 0.0001095 (1 of 2). Comparing 17 points to limit.

Constituent: pH, Field Analysis Run 4/20/2023 12:38 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Exceeds Limit: WGWC-16, WGWC-20, WGWC-21, WGWC-22, WGWC-24, WGWC-25, WGWC-8, WGWC-9

Prediction Limit
Interwell Non-parametric



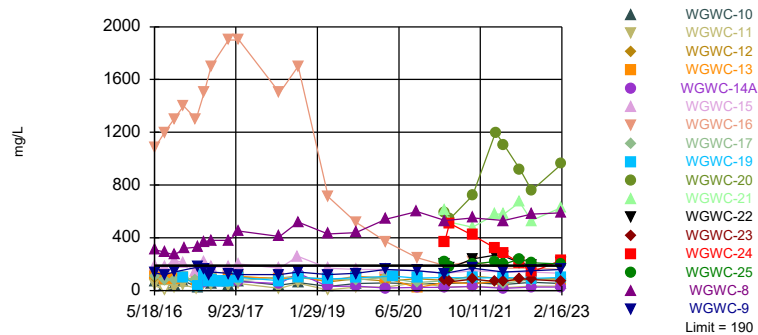
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 159 background values. 23.9% NDs. Annual per-constituent alpha = 0.002627. Individual comparison alpha = 0.00007737 (1 of 2). Comparing 17 points to limit.

Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:38 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Exceeds Limit: WGWC-20, WGWC-21, WGWC-22, WGWC-24, WGWC-25, 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 159 background values. 6.289% NDs. Annual per-constituent alpha = 0.002627. Individual comparison alpha = 0.00007737 (1 of 2). Comparing 17 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/20/2023 12:38 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-15	WGWC-17	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWA-5 (bg)
5/17/2016	<0.08	<0.08	<0.08						
5/18/2016				<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
5/19/2016									
7/19/2016	<0.08	<0.08	<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	
9/14/2016				<0.08	<0.08	<0.08			<0.08
9/15/2016									
11/9/2016	<0.08	<0.08	<0.08					<0.08	
11/10/2016				<0.08	<0.08		<0.08		
11/11/2016						<0.08			
11/14/2016									
1/17/2017	<0.08	<0.08							
1/18/2017							<0.08	<0.08	
1/19/2017			<0.08						<0.08
1/20/2017					<0.08				
1/24/2017				<0.08					
1/27/2017									
2/6/2017						<0.08			
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						0.032 (J)			
3/17/2017									
4/11/2017									
4/24/2017	<0.08	<0.08							
4/25/2017			<0.08	<0.08	<0.08		<0.08	<0.08	<0.08
4/26/2017						<0.08			
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<0.08	<0.08	<0.08				<0.08	<0.08	
8/9/2017				<0.08	<0.08				<0.08
8/10/2017						<0.08			
10/10/2017	<0.08	<0.08							
10/11/2017			<0.08	<0.08	<0.08		<0.08	<0.08	<0.08
10/12/2017						<0.08			
6/13/2018	<0.08		<0.08					<0.08	<0.08
6/14/2018		<0.08		<0.08	<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					<0.08	<0.08			
4/1/2019	<0.08	<0.08							
4/2/2019			<0.08				<0.08	<0.08	<0.08
4/3/2019									
4/4/2019				<0.08	0.049 (J)	0.024 (J)			
9/16/2019	<0.08							<0.08	<0.08

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-15	WGWC-17	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWA-5 (bg)
9/17/2019		<0.08	<0.08						
9/18/2019				<0.08	<0.08		<0.08		
9/19/2019						<0.08			
3/16/2020	<0.08	0.048 (J)							
3/17/2020			<0.08				<0.08	<0.08	<0.08
3/18/2020				0.071 (J)	0.049 (J)	0.049 (J)			
3/19/2020									
5/4/2020									
9/21/2020		<0.08							
9/22/2020	<0.08		<0.08				<0.08	<0.08	<0.08
9/23/2020				<0.08	<0.08	<0.08			
9/24/2020									
3/8/2021									
3/9/2021									
3/10/2021		0.039 (J)	<0.08				<0.08		<0.08
3/11/2021	<0.08				<0.08	<0.08		<0.08	
3/12/2021				<0.08					
4/7/2021									
4/8/2021									
8/23/2021		<0.08							
8/24/2021	<0.08						<0.08	<0.08	<0.08
8/25/2021			0.1		<0.08				
8/26/2021				<0.08		<0.08			
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022	<0.08	<0.08						<0.08	<0.08
3/3/2022			0.1	<0.08		<0.08	<0.08		
3/4/2022					<0.08				
6/6/2022									
6/7/2022									
8/15/2022	<0.08	0.066 (J)						<0.08	<0.08
8/16/2022			<0.08		<0.08		<0.08		
8/17/2022				<0.08					
8/18/2022									
8/19/2022						<0.08			
2/14/2023	0.026 (J)	0.023 (J)	<0.08				0.033 (J)	<0.08	0.03 (J)
2/15/2023				<0.08					
2/16/2023					<0.08	0.04 (J)			

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-16	WGWC-11	WGWC-9	WGWC-8	WGWC-12	WGWC-13	WGWC-19
5/17/2016									
5/18/2016	<0.08	<0.08	4.48						
5/19/2016				<0.08	0.314	1.42	<0.08	0.0252 (J)	
7/19/2016			4.7						
7/20/2016	<0.08	<0.08		<0.08	0.25	1.4	<0.08	<0.08	
9/13/2016	<0.08	<0.08							
9/14/2016			5.8	<0.08	0.3		<0.08	<0.08	
9/15/2016						1.2			
11/9/2016									
11/10/2016	<0.08	<0.08	6.7					<0.08	
11/11/2016				<0.08			<0.08		<0.08
11/14/2016						1.3			
1/17/2017									
1/18/2017	<0.08	<0.08							
1/19/2017									
1/20/2017									
1/24/2017			6.3						
1/27/2017				0.021 (J)			0.047 (J)	0.033 (J)	
2/6/2017						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			5.9	0.058	0.42	1.7	0.024 (J)	<0.08	0.034 (J)
3/17/2017									
4/11/2017					0.37				<0.08
4/24/2017									
4/25/2017	<0.08	<0.08	6.2						
4/26/2017				<0.08	0.38	2	<0.08	<0.08	<0.08
5/17/2017									
6/7/2017									<0.08
7/11/2017									<0.08
8/8/2017		<0.08							
8/9/2017	<0.08		6.3					<0.08	
8/10/2017				<0.08	0.29	1.8	<0.08		<0.08
10/10/2017									
10/11/2017	<0.08	<0.08	6.8						
10/12/2017				<0.08	0.36	1.8	<0.08	<0.08	<0.08
6/13/2018									
6/14/2018	<0.08	<0.08	5.4	<0.08	0.39	1.7	<0.08	<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			5.5	<0.08	0.37	1.9	<0.08	<0.08	<0.08
4/1/2019									
4/2/2019	<0.08	<0.08							<0.08
4/3/2019				<0.08	0.35	1.7	<0.08	<0.08	
4/4/2019			3.2						
9/16/2019									

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-16	WGWC-11	WGWC-9	WGWC-8	WGWC-12	WGWC-13	WGWC-19
9/17/2019	<0.08								
9/18/2019		<0.08	2.1					<0.08	<0.08
9/19/2019				<0.08	0.39	1.7	<0.08		
3/16/2020									
3/17/2020	<0.08	<0.08							
3/18/2020			2	<0.08			0.039 (J)		
3/19/2020					0.55	2.2		0.053 (J)	
5/4/2020									<0.08
9/21/2020	<0.08	<0.08							
9/22/2020						2.5			
9/23/2020			1.5		0.68		<0.08		<0.08
9/24/2020				<0.08				<0.08	
3/8/2021									
3/9/2021									
3/10/2021	<0.08	<0.08							
3/11/2021			1.1			2.4		<0.08	<0.08
3/12/2021				<0.08	0.64		<0.08		
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021	<0.08								
8/25/2021		<0.08	0.89	<0.08			<0.08	0.063 (J)	
8/26/2021					0.56	2.4			<0.08
1/11/2022									
1/12/2022									
2/28/2022	<0.08								
3/1/2022		<0.08							
3/3/2022			0.79	<0.08	0.62	2.7		<0.08	<0.08
3/4/2022							<0.08		
6/6/2022									
6/7/2022									
8/15/2022									
8/16/2022	<0.08	<0.08		<0.08		2.3			
8/17/2022			0.73		0.55				<0.08
8/18/2022							<0.08	<0.08	
8/19/2022									
2/14/2023		<0.08							
2/15/2023	<0.08		0.86		0.69				
2/16/2023				<0.08		2.8	0.024 (J)	0.033 (J)	<0.08

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-21	WGWC-23	WGWC-22	WGWC-24
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, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-21	WGWC-23	WGWC-22	WGWC-24
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						
3/8/2021		1.3	0.48				
3/9/2021				0.19	0.073 (J)	0.33	1.8
3/10/2021							
3/11/2021	<0.08						
3/12/2021							
4/7/2021				0.13	<0.08		1.9
4/8/2021		0.98	0.43			0.21	
8/23/2021							
8/24/2021							
8/25/2021	0.043 (J)						
8/26/2021		2.1	0.7	0.087	0.052 (J)	0.36	2.1
1/11/2022			0.87	0.12	0.048 (J)	0.39	1.7
1/12/2022		4.9					
2/28/2022							
3/1/2022							
3/3/2022	<0.08			0.12			1.6
3/4/2022		4.3	0.72		<0.08	0.41	
6/6/2022				0.13	<0.08		0.64
6/7/2022		2.8	0.78			0.39	
8/15/2022							
8/16/2022				0.099			
8/17/2022			0.82		<0.08		
8/18/2022		2.2					0.44
8/19/2022	<0.08					0.33	
2/14/2023							
2/15/2023			0.89		0.049 (J)	0.39	1.4
2/16/2023	0.03 (J)	3.5		0.14			

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-15	WGWC-17	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWA-5 (bg)
9/17/2019		13	10						
9/18/2019				31	5.5		1.5		
9/19/2019						7.5			
3/16/2020	1.1	10							
3/17/2020			10				0.82	26	1.4
3/18/2020				30	6.3	7.5			
3/19/2020									
5/4/2020									
9/21/2020		13							
9/22/2020	1.2		19				0.89	25	58
9/23/2020				32	5.9	7.7			
9/24/2020									
3/8/2021									
3/9/2021									
3/10/2021		11	7.7				0.89		1.3
3/11/2021	1.3				5.7	7.9		26	
3/12/2021				31					
4/7/2021									
4/8/2021									
8/23/2021		13							
8/24/2021	1.2						1.7	26	47
8/25/2021			16		6				
8/26/2021				31		7.6			
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022	1.1	13						22	2.1
3/3/2022			6.1	28		7.1	1.4		
3/4/2022					5.3				
6/6/2022									
6/7/2022									
8/15/2022	1.2	12						24	51
8/16/2022			8.8		5.6		0.94		
8/17/2022				29					
8/18/2022									
8/19/2022						7.3			
2/14/2023	1.4	12	5.7				1.3	29	1.3
2/15/2023				31					
2/16/2023					6	6.9			

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-16	WGWC-11	WGWC-9	WGWC-8	WGWC-12	WGWC-13	WGWC-19
9/17/2019	16								
9/18/2019		1.6	62					4.9	8.8
9/19/2019				1.4	8.1	57	14		
3/16/2020									
3/17/2020	15	1.7							
3/18/2020			66	1.6			14		
3/19/2020					9.3	79		5	
5/4/2020									15
9/21/2020	16	1.8							
9/22/2020						81			
9/23/2020			43		10		13		13
9/24/2020				5.2				1.4	
3/8/2021									
3/9/2021									
3/10/2021	16	1.9							
3/11/2021			32			83		4	15
3/12/2021				1.6	11		15		
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021	15								
8/25/2021		1.7	27	1.5			14	4	
8/26/2021					9.3	85			10
1/11/2022									
1/12/2022									
2/28/2022	14								
3/1/2022		1.6							
3/3/2022			24	1.3	8.6	88		3.4	12
3/4/2022							12		
6/6/2022									
6/7/2022									
8/15/2022									
8/16/2022	16	1.8		1.6		83			
8/17/2022			20		9				9.8
8/18/2022							13	3.5	
8/19/2022									
2/14/2023		2							
2/15/2023	18		26		11				
2/16/2023				1.7		92	12	3.8	13

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-21	WGWC-23	WGWC-22	WGWC-24
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, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-21	WGWC-23	WGWC-22	WGWC-24
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						
3/8/2021		90	14				
3/9/2021				66	3.2	15	65
3/10/2021							
3/11/2021	0.79						
3/12/2021							
4/7/2021				67	2.7		71
4/8/2021		88	16			14	
8/23/2021							
8/24/2021							
8/25/2021	0.7						
8/26/2021		120	16	51	4.6	24	69
1/11/2022			16	57	3.1	32	51
1/12/2022		220					
2/28/2022							
3/1/2022							
3/3/2022	0.65			54			42
3/4/2022		200	16		4	31	
6/6/2022				58	4.5		22
6/7/2022		140	15			19	
8/15/2022							
8/16/2022				55			
8/17/2022			15		4.6		
8/18/2022		110					16
8/19/2022	0.64					18	
2/14/2023							
2/15/2023			18		2.4	26	39
2/16/2023	0.69	190		68			

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-15	WGWC-17	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWA-5 (bg)
5/17/2016	3.8	2.5	6.05						
5/18/2016				4.59	2.72	1.45	2.06	1.58	2.14
5/19/2016									
7/19/2016	3.9	2.6	4	5.9			2.1	1.6	2.4
7/20/2016					1.9	1.6			
9/13/2016	3.6	2.4	3.1				2	1.4	
9/14/2016				7.9	1.6	1.5			2.1
9/15/2016									
11/9/2016	3.9	2.3	2.3					1.5	
11/10/2016				6.5	1.6		1.8		
11/11/2016						1.5			
11/14/2016									
1/17/2017	3.8	2.3							
1/18/2017							1.8	1.5	
1/19/2017			2						1.8
1/20/2017					1.5				
1/24/2017				4.1					
1/27/2017									
2/6/2017						1.4			
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	3.4	2.2							
3/14/2017			1.9	4.4	1.5		1.8	2.5	2
3/15/2017						1.4			
3/17/2017									
4/11/2017									
4/24/2017	3.4	2.2							
4/25/2017			1.9	4	1.8		1.8	1.3	1.8
4/26/2017						1.3			
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	3.6	2.3	2				1.9	1.4	
8/9/2017				3.6	1.4				1.9
8/10/2017						1.4			
10/10/2017	3.6	2.5							
10/11/2017			1.9	5	1.5		1.8	1.3	2.1
10/12/2017						1.3			
6/13/2018	3.8		2					1.4	1.7
6/14/2018		2.3		4.3	1.5	1.3	1.7		
9/24/2018		2.4							
9/27/2018	4								
9/28/2018			2.1						
10/2/2018								1.4	
10/3/2018				4.8			1.8		1.8
10/4/2018					1.5	1.3			
4/1/2019	4	2.4							
4/2/2019			2.6				1.9	1.5	1.7
4/3/2019									
4/4/2019				3.7	1.4	1.4			
9/16/2019	4						1.5		1.8

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-15	WGWC-17	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWA-5 (bg)
9/17/2019		2.4	2						
9/18/2019				3.2	1.5		2		
9/19/2019						1.5			
3/16/2020	4.3	2.7							
3/17/2020			2.3				2.2	1.7	1.6
3/18/2020				1.7	1.5	1.5			
3/19/2020									
5/4/2020									
9/21/2020		2.5							
9/22/2020	4		2.1				1.8	1.4	1.5
9/23/2020				1.5	1.2	1.3			
9/24/2020									
3/8/2021									
3/9/2021									
3/10/2021		2.6	1.9				1.9		1.8
3/11/2021	4.5				1.3	1.7		1.5	
3/12/2021				1.6					
4/7/2021									
4/8/2021									
8/23/2021		3.3							
8/24/2021	5.1						1.9	1.8	2.1
8/25/2021			2.3		1.6				
8/26/2021				1.4		1.6			
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022	4.1	2.7						1.5	1.5
3/3/2022			2	1.4		1.6	2.1		
3/4/2022					1.3				
6/6/2022									
6/7/2022									
8/15/2022	4	2.7						1.5	1.5
8/16/2022			1.9		1.3		1.9		
8/17/2022				1.2					
8/18/2022									
8/19/2022						1.4			
2/14/2023	3.9	2.6	1.9				1.8	1.5	1.3
2/15/2023				1					
2/16/2023					1.2	1.3			

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-16	WGWC-11	WGWC-9	WGWC-8	WGWC-12	WGWC-13	WGWC-19
9/17/2019	1.2								
9/18/2019		1.7	100					1.2	2.7
9/19/2019				3.2	1.5	70	3.2		
3/16/2020									
3/17/2020	1.4	1.8							
3/18/2020			93	3.2			3.2		
3/19/2020					2.1	98		1.3	
5/4/2020									2.8
9/21/2020	1.2	1.5							
9/22/2020						100			
9/23/2020			58		2.4		2.8		2.6
9/24/2020				1				1.6	
3/8/2021									
3/9/2021									
3/10/2021	1.2	1.8							
3/11/2021			49			110		1.2	2.9
3/12/2021				3.6	3.4		3.5		
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021	1.5								
8/25/2021		1.9	45	3.5			3.7	1.2	
8/26/2021					3.1	110			3.3
1/11/2022									
1/12/2022									
2/28/2022	1.2								
3/1/2022		1.8							
3/3/2022			42	3.6	3.5	130		1	3.2
3/4/2022							3.2		
6/6/2022									
6/7/2022									
8/15/2022									
8/16/2022	1.2	1.6		3.5		110			
8/17/2022			35		3.2				2.8
8/18/2022							3	0.98 (J)	
8/19/2022									
2/14/2023		1.6							
2/15/2023	1.2		42		3.9				
2/16/2023				3.3		120	2.9	0.97 (J)	2.6

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-21	WGWC-23	WGWC-22	WGWC-24
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, Total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-21	WGWC-23	WGWC-22	WGWC-24
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						
3/8/2021		70	74				
3/9/2021				58	3.5	2.9	110
3/10/2021							
3/11/2021	2.6						
3/12/2021							
4/7/2021				50	3.7		110
4/8/2021		57	77			2.4	
8/23/2021							
8/24/2021							
8/25/2021	2.8						
8/26/2021		130	79	47	3.3	4.2	100
1/11/2022			75	44	2.9	5.1	60
1/12/2022		350					
2/28/2022							
3/1/2022							
3/3/2022	2.4			45			50
3/4/2022		330	79		2.9	5.3	
6/6/2022				48	3.1		41
6/7/2022		180	79			4.3	
8/15/2022							
8/16/2022				41			
8/17/2022			77		3.2		
8/18/2022		140					27
8/19/2022	2.1					4.2	
2/14/2023							
2/15/2023			79		2.9	4.6	39
2/16/2023	1.9	230		51			

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL

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, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 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)
3/8/2021									
3/9/2021									
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			
4/7/2021									
4/8/2021									
8/23/2021		0.097 (J)							
8/24/2021	0.062 (J)				0.054 (J)		0.16		
8/25/2021			0.13					0.099 (J)	0.093 (J)
8/26/2021				0.16		0.77			
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022	<0.1	0.058 (J)					0.063 (J)		
3/3/2022			0.078 (J)	0.067 (J)	0.038 (J)	0.88		0.067 (J)	
3/4/2022									0.06 (J)
6/6/2022									
6/7/2022									
8/15/2022	<0.1	0.057 (J)					0.093 (J)		
8/16/2022			0.06 (J)		<0.1				0.06 (J)
8/17/2022						0.68		0.062 (J)	
8/18/2022									
8/19/2022				0.1					
2/14/2023	<0.1	0.07 (J)	0.053 (J)		<0.1		0.11		

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
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
2/15/2023						0.73		0.076 (J)	
2/16/2023				0.11					0.069 (J)

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWA-5 (bg)	WGWC-8	WGWC-9	WGWC-11	WGWC-12	WGWC-13	WGWC-19
5/17/2016									
5/18/2016	0.164 (J)	0.029 (J)	0.014 (J)						
5/19/2016				0.304	1.58	0.039 (J)	0.12 (J)	0.384	
7/19/2016			<0.1						
7/20/2016	0.17 (J)	<0.1		0.27	2	<0.1	0.11 (J)	0.34	
9/13/2016	0.15 (J)	<0.1							
9/14/2016			0.095 (J)		1.8	<0.1	0.095 (J)	0.31	
9/15/2016				0.24					
11/9/2016									
11/10/2016	0.12 (J)	<0.1						0.26	
11/11/2016						<0.1	<0.1		0.32
11/14/2016				0.2					
1/17/2017									
1/18/2017	0.15 (J)	<0.1							
1/19/2017			<0.1						
1/20/2017									
1/24/2017									
1/27/2017						<0.1	<0.1	0.28	
2/6/2017				0.27					0.45
2/8/2017									
2/9/2017					1.3				
2/23/2017									
3/13/2017									
3/14/2017	0.13 (J)	<0.1	<0.1						
3/15/2017				0.25	1.3	<0.1	<0.1	0.3	0.37
3/17/2017									
4/11/2017					1.4				0.37
4/24/2017									
4/25/2017	0.12 (J)	<0.1	<0.1						
4/26/2017				0.31	1.5	<0.1	<0.1	0.33	0.4
5/17/2017									
6/7/2017									0.35
7/11/2017									0.39
8/8/2017		<0.1							
8/9/2017	0.14 (J)		<0.1					0.32	
8/10/2017				0.37	1.6	<0.1	0.11 (J)		0.42
10/10/2017									
10/11/2017	0.14 (J)	<0.1	<0.1						
10/12/2017				0.35	1.5	<0.1	0.091 (J)	0.28	0.36
3/27/2018									
3/28/2018	0.12 (J)	<0.1	<0.1						
3/29/2018				0.36	1.4	<0.1	0.089 (J)	0.27	0.34
3/30/2018									
6/13/2018			<0.1						
6/14/2018	0.12 (J)	<0.1		0.56	1.4	<0.1	0.1 (J)	0.27	0.35
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	0.13 (J)	<0.1	<0.1						
10/4/2018				0.27	1.4	<0.1	0.12 (J)	0.23	0.35
2/25/2019									

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWA-5 (bg)	WGWC-8	WGWC-9	WGWC-11	WGWC-12	WGWC-13	WGWC-19
2/26/2019	0.14 (J)	<0.1	<0.1						
2/27/2019				0.054 (J)		0.047 (J)	0.06 (J)	0.25	
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				0.5	1.3	0.048 (J)	0.084 (J)	0.24	
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				0.42	1.3	0.037 (J)	0.093 (J)		
2/3/2020									
2/4/2020	0.13	0.031 (J)	<0.1						
2/5/2020					1.3	0.045 (J)	0.098 (J)	0.2	
2/7/2020				0.25					0.35
3/16/2020									
3/17/2020	0.11	0.04 (J)	<0.1						
3/18/2020						<0.1	0.033 (J)		
3/19/2020				0.057 (J)	1			0.15	
5/4/2020									0.36
9/21/2020	0.091 (J)	<0.1							
9/22/2020			<0.1	0.14					
9/23/2020					0.82		0.064 (J)		0.25
9/24/2020						0.18		<0.1	
2/2/2021	0.15	0.035 (J)							
2/3/2021			<0.1	0.15		0.027 (J)	0.082 (J)		0.3
2/4/2021					0.91			0.16	
3/8/2021									
3/9/2021									
3/10/2021	0.12	<0.1	<0.1						
3/11/2021				0.16				0.18	0.31
3/12/2021					0.98	0.044 (J)	0.096 (J)		
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021	0.17		0.073 (J)						
8/25/2021		0.077 (J)				0.056 (J)	0.14	0.2	
8/26/2021				0.21	1				0.38
1/11/2022									
1/12/2022									
2/28/2022	0.083 (J)								
3/1/2022		<0.1	<0.1						
3/3/2022				0.19	1	0.055 (J)		0.21	0.4
3/4/2022							0.068 (J)		
6/6/2022									
6/7/2022									
8/15/2022			<0.1						
8/16/2022	0.12	<0.1		0.21		<0.1			
8/17/2022					0.9				0.28
8/18/2022							0.073 (J)	0.14	
8/19/2022									
2/14/2023		0.041 (J)	<0.1						

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWA-5 (bg)	WGWC-8	WGWC-9	WGWC-11	WGWC-12	WGWC-13	WGWC-19
2/15/2023	0.14				0.85				
2/16/2023				0.14		0.041 (J)	0.089 (J)	0.15	0.33

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-22	WGWC-21	WGWC-23	WGWC-24
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, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-22	WGWC-21	WGWC-23	WGWC-24
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)						
3/8/2021		<0.1	1.8				
3/9/2021				1.1	1.7	0.092 (J)	1
3/10/2021							
3/11/2021	0.04 (J)						
3/12/2021							
4/7/2021					1.6	0.093 (J)	1.1
4/8/2021		0.028 (J)	1.7	1.4			
8/23/2021							
8/24/2021							
8/25/2021	0.071 (J)						
8/26/2021		0.047 (J)	2	0.51	2	0.081 (J)	1.2
1/11/2022		0.028 (J)		0.45	1.9	0.045 (J)	1
1/12/2022			1.8				
2/28/2022							
3/1/2022							
3/3/2022	0.057 (J)				1.8		0.71
3/4/2022		0.038 (J)	2	0.42		0.045 (J)	
6/6/2022					1.9	0.028 (J)	0.43
6/7/2022		<0.1	2.5	0.37			
8/15/2022							
8/16/2022					1.8		
8/17/2022		<0.1				0.043 (J)	
8/18/2022			2				0.24
8/19/2022	<0.1			0.31			
2/14/2023							

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-22	WGWC-21	WGWC-23	WGWC-24
2/15/2023		<0.1		0.31		0.048 (J)	0.63
2/16/2023	<0.1		1.9		1.9		

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 4/20/2023 12:40 PM View: Interwell PL

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, Field (S.U.) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
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)
8/19/2022				6.2					
2/14/2023	5.37	6.06	5.89		5.44		7.78		5.3
2/15/2023						7.72		5.19	
2/16/2023				6.39					

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 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, Field (S.U.) Analysis Run 4/20/2023 12:40 PM View: Interwell PL

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		
3/8/2021									
3/9/2021									
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	
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021		7.22							
8/25/2021	6.09		5.52	5.66	6.27			6.69	
8/26/2021						5.36	5.84		6.66
1/11/2022									
1/12/2022									
2/28/2022		7.14							
3/1/2022			5.59						
3/3/2022				5.59	6.31	5.21	5.86		6.69
3/4/2022	6.21							6.79	
6/6/2022									
6/7/2022									
8/15/2022									
8/16/2022	6.02	6.92	5.46	5.56		5.4			
8/17/2022							5.8		6.6
8/18/2022					6.15			6.52	

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
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
8/19/2022									
2/14/2023			5.49						
2/15/2023		7.21					5.86		
2/16/2023	6.28			5.69	6.27	5.22		6.61	6.8

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-23	WGWC-22	WGWC-21	WGWC-24
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, Field (S.U.) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-23	WGWC-22	WGWC-21	WGWC-24
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						
3/8/2021		5.54	5.36				
3/9/2021				5.81	5.56	7.29	4.29
3/10/2021							
3/11/2021	5.1						
3/12/2021							
4/7/2021				5.57		7.05	4.43
4/8/2021		5.6	5.39		6.01		
8/23/2021							
8/24/2021							
8/25/2021	5.39						
8/26/2021		5.37	5.3	5.8	5.4	6.88	4.33
1/11/2022			5.26	5.61	5.4	6.68	4.39
1/12/2022		5.19					
2/28/2022							
3/1/2022							
3/3/2022	5.4					6.88	4.39
3/4/2022		5.23	5.21	5.74	5.34		
6/6/2022				5.73		6.69	4.52
6/7/2022		5.39	5.32		5.41		
8/15/2022							
8/16/2022						6.72	
8/17/2022			5.28	5.64			
8/18/2022		5.29					4.42

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-23	WGWC-22	WGWC-21	WGWC-24
8/19/2022	5.25				5.34		
2/14/2023							
2/15/2023			5.36	5.49	5.47		4.54
2/16/2023	5.4	5.17				6.92	

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-15	WGWC-17	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWA-5 (bg)
5/17/2016	<1	1.14	19.9						
5/18/2016				50.7	32.1	2.84	0.368 (J)	8.88	0.955 (J)
5/19/2016									
7/19/2016	<1	1.4	14	62			<1	9	0.76 (J)
7/20/2016					9.7	2.8			
9/13/2016	<1	1.1	11				<1	8.5	
9/14/2016				79	6.6	2.8			3.4
9/15/2016									
11/9/2016	<1	1.1	6.3					8.2	
11/10/2016				61	5.2		<1		
11/11/2016						2.6			
11/14/2016									
1/17/2017	<1	2.1							
1/18/2017							1.4	9.4	
1/19/2017			7.4						21
1/20/2017					5.3				
1/24/2017				34					
1/27/2017									
2/6/2017						2.7			
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<1	0.97 (J)							
3/14/2017			10	43	9.6		<1	2	1.4
3/15/2017						2.7			
3/17/2017									
4/11/2017									
4/24/2017	<1	0.75 (J)							
4/25/2017			10	39	20		<1	8.2	0.89 (J)
4/26/2017						2.5			
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<1	1.1	12				<1	8.5	
8/9/2017				35	6.5				0.75 (J)
8/10/2017						2.2			
10/10/2017	<1	1.3							
10/11/2017			11	48	13		<1	8.3	<1
10/12/2017						1.9			
6/13/2018	<1		8.2					8.3	<1
6/14/2018		0.84 (J)		44	16	2	<1		
9/24/2018		0.79 (J)							
9/27/2018	<1								
9/28/2018			7.6						
10/2/2018								8.3	
10/3/2018				49			<1		<1
10/4/2018					15	1.9			
4/1/2019	<1	1							
4/2/2019			11				0.4 (J)	8.5	0.94 (J)
4/3/2019									
4/4/2019				41	9.1	2.2			
9/16/2019	0.49 (J)							8.9	2.2

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-15	WGWC-17	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWA-5 (bg)
9/17/2019		1.3	8						
9/18/2019				37	7.3		<1		
9/19/2019						2.1			
3/16/2020	0.42 (J)	1.3							
3/17/2020			8.5				0.86 (J)	12	4
3/18/2020				17	4.2	2.1			
3/19/2020									
5/4/2020									
9/21/2020		1.1							
9/22/2020	<1		9				0.38 (J)	8	1.5
9/23/2020				21	4.4	1.8			
9/24/2020									
3/8/2021									
3/9/2021									
3/10/2021		0.9 (J)	7.1				<1		<1
3/11/2021	<1				3.9	2.8		8.4	
3/12/2021				19					
4/7/2021									
4/8/2021									
8/23/2021		1.3							
8/24/2021	<1						<1	8.9	2.8
8/25/2021			8.2		3.3				
8/26/2021				16		1.8			
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022	<1	1.6						9.2	0.99 (J)
3/3/2022			8.5	18		2	<1		
3/4/2022					3.6				
6/6/2022									
6/7/2022									
8/15/2022	<1	0.54 (J)						7.5	1.6
8/16/2022			7.2		3.4		<1		
8/17/2022				14					
8/18/2022									
8/19/2022						1.6			
2/14/2023	<1	0.66 (J)	7.3				<1	7.9	0.66 (J)
2/15/2023				14					
2/16/2023					2.6	1.8			

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-16	WGWC-11	WGWC-9	WGWC-8	WGWC-12	WGWC-13	WGWC-19
5/17/2016									
5/18/2016	5.32	0.821 (J)	388						
5/19/2016				1.83	35.9	146	15.8	19.2	
7/19/2016			460						
7/20/2016	6.5	0.82 (J)		1.6	37	150	16	11	
9/13/2016	5.6	0.81 (J)							
9/14/2016			500	1.5	39		16	8.6	
9/15/2016						140			
11/9/2016									
11/10/2016	5.4	0.73 (J)	530					5.7	
11/11/2016				1.4			14		3.4
11/14/2016						160			
1/17/2017									
1/18/2017	5.1	0.99 (J)							
1/19/2017									
1/20/2017									
1/24/2017			600						
1/27/2017				2.5			15	6.8	
2/6/2017						180			3.7
2/8/2017									
2/9/2017					60				
2/23/2017									
3/13/2017									
3/14/2017	4.6	0.83 (J)							
3/15/2017			610	2.5	44	170	17	11	3.6
3/17/2017									
4/11/2017					36				3.2
4/24/2017									
4/25/2017	6.6	0.7 (J)	620						
4/26/2017				2.2	37	180	15	8.1	3.3
5/17/2017									
6/7/2017									3.8
7/11/2017									3.3
8/8/2017		0.82 (J)							
8/9/2017	7.3		780					8.1	
8/10/2017				2.3	38	180	16		3.7
10/10/2017									
10/11/2017	6.8	0.72 (J)	720						
10/12/2017				1.9	37	180	14	6.1	3.6
6/13/2018									
6/14/2018	6.9	<1	620	1.7	37	170	14	5	3.5
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	7	0.73 (J)							
10/4/2018			560	1.6	38	780	14	4.3	4.6
4/1/2019									
4/2/2019	8.1	1.1							3.8
4/3/2019				1.9	41	180	13	3.8	
4/4/2019			250						
9/16/2019									

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-16	WGWC-11	WGWC-9	WGWC-8	WGWC-12	WGWC-13	WGWC-19
9/17/2019	8.1								
9/18/2019		0.78 (J)	130					3.9	3.6
9/19/2019				1.3	42	190	14		
3/16/2020									
3/17/2020	12	1.2							
3/18/2020			120	1.6			12		
3/19/2020					45	200		4	
5/4/2020									4.5
9/21/2020	7.7	0.77 (J)							
9/22/2020						200			
9/23/2020			85		54		12		3
9/24/2020				2.7				0.63 (J)	
3/8/2021									
3/9/2021									
3/10/2021	8.1	0.91 (J)							
3/11/2021			64			220		2.9	4
3/12/2021				2	62		14		
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021	7.9								
8/25/2021		0.79 (J)	63	1.1			13	1.8	
8/26/2021					52	220			3.5
1/11/2022									
1/12/2022									
2/28/2022	8.4								
3/1/2022		0.98 (J)							
3/3/2022			57	2.3	58	250		3	4.8
3/4/2022							14		
6/6/2022									
6/7/2022									
8/15/2022									
8/16/2022	6.9	0.52 (J)		0.98 (J)		220			
8/17/2022			49		50				2.8
8/18/2022							11	1.7	
8/19/2022									
2/14/2023		0.65 (J)							
2/15/2023	7.8		54		65				
2/16/2023				1		250	2.8	2.3	3

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-21	WGWC-23	WGWC-22	WGWC-24
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 as SO4 (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-21	WGWC-23	WGWC-22	WGWC-24
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						
3/8/2021		240	4.7				
3/9/2021				230	14	80	140
3/10/2021							
3/11/2021	1.7						
3/12/2021							
4/7/2021				190	5.1		160
4/8/2021		240	5.8			60	
8/23/2021							
8/24/2021							
8/25/2021	<1						
8/26/2021		290	13	190	7.5	100	170
1/11/2022			21	260	5.3	140	160
1/12/2022		360					
2/28/2022							
3/1/2022							
3/3/2022	1.3			250			130
3/4/2022		390	21		5	150	
6/6/2022				140	5.3		67
6/7/2022		280	22			96	
8/15/2022							
8/16/2022				240			
8/17/2022			25		5.5		
8/18/2022		280					49
8/19/2022	<1					87	
2/14/2023							
2/15/2023			27		5.2	110	120
2/16/2023	0.47 (J)	350		340			

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-15	WGWC-17	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWA-5 (bg)
5/17/2016	<10	100	112						
5/18/2016				190	107	70	31	113	33
5/19/2016									
7/19/2016	14	84	80	180			<10	92	<10
7/20/2016					78	42			
9/13/2016	50	70	120				<10	100	
9/14/2016				230	82	40			150
9/15/2016									
11/9/2016	22	110	76					130	
11/10/2016				210	98		44		
11/11/2016						72			
11/14/2016									
1/17/2017	8	120							
1/18/2017							50	120	
1/19/2017			36						34
1/20/2017					82				
1/24/2017				140					
1/27/2017									
2/6/2017						24			
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<10	58							
3/14/2017			70	220	120		26	110	32
3/15/2017						78			
3/17/2017									
4/11/2017									
4/24/2017	10	94							
4/25/2017			70	180	120		10	100	22
4/26/2017						48			
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<10	62	72				<10	90	
8/9/2017				180	92				20
8/10/2017						38			
10/10/2017	44	140							
10/11/2017			90	200	74		42	98	4 (J)
10/12/2017						72			
6/13/2018	24		38					110	<10
6/14/2018		80		170	100	40	14		
9/24/2018		76							
9/27/2018	28								
9/28/2018			68						
10/2/2018								130	
10/3/2018				260			6		24
10/4/2018					98	60			
4/1/2019	<10	63							
4/2/2019			100				15	110	25
4/3/2019									
4/4/2019				170	89	30			
9/16/2019	27							110	41

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-15	WGWC-17	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWA-5 (bg)
9/17/2019		120	76						
9/18/2019				160	79		35		
9/19/2019						52			
3/16/2020	23	90							
3/17/2020			81				19	120	18
3/18/2020				160	98	58			
3/19/2020									
5/4/2020									
9/21/2020		100							
9/22/2020	24		96				15	130	190
9/23/2020				150	60	50			
9/24/2020									
3/8/2021									
3/9/2021									
3/10/2021		100	72				20		19
3/11/2021	24				75	52		110	
3/12/2021				130					
4/7/2021									
4/8/2021									
8/23/2021		110							
8/24/2021	32						24	120	150
8/25/2021			92		84				
8/26/2021				150		60			
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022	30	92						140	23
3/3/2022			43	140		45	17		
3/4/2022					55				
6/6/2022									
6/7/2022									
8/15/2022	45	100						120	140
8/16/2022			60		81		22		
8/17/2022				140					
8/18/2022									
8/19/2022						63			
2/14/2023	34	100	42				24	120	24
2/15/2023				130					
2/16/2023					77	54			

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-16	WGWC-11	WGWC-9	WGWC-8	WGWC-12	WGWC-13	WGWC-19
5/17/2016									
5/18/2016	101	29	1080						
5/19/2016				39	134	311	101	127	
7/19/2016			1200						
7/20/2016	86	<10		<10	120	290	76	88	
9/13/2016	28	12							
9/14/2016			1300	24	140		96	92	
9/15/2016						270			
11/9/2016									
11/10/2016	110	30	1400					100	
11/11/2016				42			100		98
11/14/2016						320			
1/17/2017									
1/18/2017	98	22							
1/19/2017									
1/20/2017									
1/24/2017			1300						
1/27/2017				18			50	80	
2/6/2017						330			36
2/8/2017									
2/9/2017					180				
2/23/2017									
3/13/2017									
3/14/2017	110	22							
3/15/2017			1500	54	160	370	120	100	120
3/17/2017									
4/11/2017					120				68
4/24/2017									
4/25/2017	86	22	1700						
4/26/2017				42	140	380	100	92	76
5/17/2017									
6/7/2017									74
7/11/2017									70
8/8/2017		4 (J)							
8/9/2017	92		1900					120	
8/10/2017				30	130	380	96		66
10/10/2017									
10/11/2017	110	10	1900						
10/12/2017				54	120	450	100	110	100
6/13/2018									
6/14/2018	92	26	1500	16	120	410	94	88	74
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	100	50							
10/4/2018			1700	56	140	520	110	100	100
4/1/2019									
4/2/2019	100	28							88
4/3/2019				<10	120	430	66	72	
4/4/2019			710						
9/16/2019									

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-16	WGWC-11	WGWC-9	WGWC-8	WGWC-12	WGWC-13	WGWC-19
9/17/2019	120								
9/18/2019		36	520					110	96
9/19/2019				27	130	440	89		
3/16/2020									
3/17/2020	100	20							
3/18/2020			370	26			73		
3/19/2020					160	540		95	
5/4/2020									110
9/21/2020	92	22							
9/22/2020						600			
9/23/2020			250		150		90		94
9/24/2020				60				21	
3/8/2021									
3/9/2021									
3/10/2021	100	20							
3/11/2021			190			530		63	100
3/12/2021				27	130		78		
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021	110								
8/25/2021		21	220	32			110	53	
8/26/2021					170	550			94
1/11/2022									
1/12/2022									
2/28/2022	95								
3/1/2022		31							
3/3/2022			170	21	140	530		71	98
3/4/2022							89		
6/6/2022									
6/7/2022									
8/15/2022									
8/16/2022	110	30		33		580			
8/17/2022			170		150				93
8/18/2022							88	89	
8/19/2022									
2/14/2023		27							
2/15/2023	100		160		160				
2/16/2023				33		590	89	81	100

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-21	WGWC-23	WGWC-22	WGWC-24
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 [TDS] (mg/L) Analysis Run 4/20/2023 12:40 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-21	WGWC-23	WGWC-22	WGWC-24
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						
3/8/2021		590	220				
3/9/2021				610	79	200	370
3/10/2021							
3/11/2021	24						
3/12/2021							
4/7/2021				520	66		510
4/8/2021		540	180			170	
8/23/2021							
8/24/2021							
8/25/2021	30						
8/26/2021		720	200	480	88	240	420
1/11/2022			220	580	67	270	320
1/12/2022		1200					
2/28/2022							
3/1/2022							
3/3/2022	17			580			280
3/4/2022		1100	200		69	260	
6/6/2022				670	90		210
6/7/2022		920	240			210	
8/15/2022							
8/16/2022				530			
8/17/2022			210		85		
8/18/2022		760					140
8/19/2022	26					190	
2/14/2023							
2/15/2023			200		71	210	230
2/16/2023	27	960		630			

FIGURE E.

Appendix III Trend Test - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/20/2023, 12:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWC-16	-0.8386	-117	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1899	122	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.05128	99	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.364	-84	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	10.03	163	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.08017	88	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.1013	-102	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-39.71	-109	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-24	-55.24	-25	-21	Yes	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	18.08	161	81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008559	-120	-105	Yes	24	16.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02645	-116	-105	Yes	24	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-22	-0.2356	-25	-21	Yes	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1191	-184	-105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-2 (bg)	-0.03618	-111	-105	Yes	24	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.3955	108	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-77.41	-97	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-25	12.63	27	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.54	140	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.768	107	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	45.28	156	81	Yes	20	0	n/a	n/a	0.01	NP

Appendix III Trend Test - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/20/2023, 12:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWA-1 (bg)	0	-19	-81	No	20	95	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-18 (bg)	0	28	81	No	20	90	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-2 (bg)	0	-56	-81	No	20	80	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-3 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-4 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-5 (bg)	0	-18	-74	No	19	94.74	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-6 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-7 (bg)	0	-19	-81	No	20	95	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-16	-0.8386	-117	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-20	0.977	10	21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-21	-0.00553	-2	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-22	0.04328	10	21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-24	-0.5953	-18	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-25	0.2155	20	21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1899	122	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.05128	99	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-1 (bg)	0.03829	80	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.364	-84	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-2 (bg)	-0.2535	-50	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-3 (bg)	0	2	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-4 (bg)	0	-24	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-5 (bg)	-0.0273	-10	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-6 (bg)	0	3	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-7 (bg)	-0.03602	-22	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-20	42.34	8	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-21	0.7832	2	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	10.03	163	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.08017	88	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-18 (bg)	-0.05405	-59	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-2 (bg)	0.05384	80	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-3 (bg)	0	-10	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-4 (bg)	0	-56	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.1013	-102	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-6 (bg)	0	13	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-7 (bg)	0	2	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-39.71	-109	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-20	69.78	10	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-21	-5.288	-8	-21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-24	-55.24	-25	-21	Yes	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-25	1.449	11	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	18.08	161	81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-1 (bg)	0	-19	-105	No	24	75	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008559	-120	-105	Yes	24	16.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-2 (bg)	-0.01627	-97	-105	No	24	37.5	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-3 (bg)	0	-38	-105	No	24	66.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-4 (bg)	-0.00409	-69	-105	No	24	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-5 (bg)	0	25	98	No	23	86.96	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-6 (bg)	-0.003249	-73	-105	No	24	8.333	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-7 (bg)	0	-25	-105	No	24	75	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02645	-116	-105	Yes	24	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-19	-0.01348	-88	-105	No	24	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-20	0.1192	10	21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-21	0.0856	6	21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-22	-0.2356	-25	-21	Yes	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-24	-0.4448	-17	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1191	-184	-105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-1 (bg)	-0.01725	-67	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-18 (bg)	-0.1261	-78	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-2 (bg)	-0.03618	-111	-105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-3 (bg)	-0.0126	-59	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-4 (bg)	0.02032	28	105	No	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-5 (bg)	-0.01347	-24	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-6 (bg)	0.02152	55	98	No	23	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-7 (bg)	-0.03614	-72	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWC-24	0.09684	17	21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-1 (bg)	0	-13	-81	No	20	90	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-18 (bg)	-0.5911	-72	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-2 (bg)	-0.03939	-32	-81	No	20	0	n/a	n/a	0.01	NP

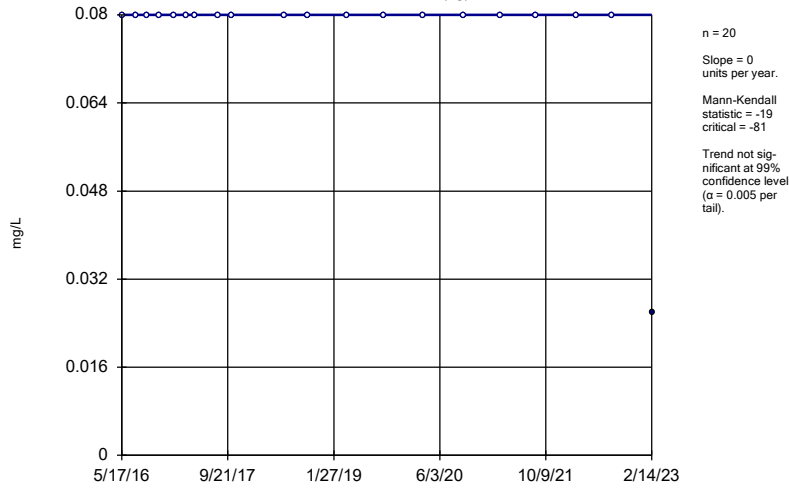
Appendix III Trend Test - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/20/2023, 12:45 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Sulfate as SO4 (mg/L)	WGWA-3 (bg)	-0.008795	-18	-81	No	20	5	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.3955	108	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-5 (bg)	0.006046	7	74	No	19	21.05	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-6 (bg)	-0.02505	-12	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-7 (bg)	0	-7	-81	No	20	75	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-77.41	-97	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-20	37.49	10	21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-21	36.17	7	21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-22	17.63	8	21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-24	-35.21	-15	-21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-25	12.63	27	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.54	140	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.768	107	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-1 (bg)	3.422	77	81	No	20	20	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-18 (bg)	-3.687	-37	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-2 (bg)	1.698	26	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-3 (bg)	1.454	36	81	No	20	5	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-4 (bg)	1.04	36	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-5 (bg)	1.043	14	74	No	19	10.53	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-6 (bg)	3.119	60	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-7 (bg)	1.109	19	81	No	20	15	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	176.4	10	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	46.87	7	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-22	2.578	1	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-24	-240.8	-20	-21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-25	0	2	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	45.28	156	81	Yes	20	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

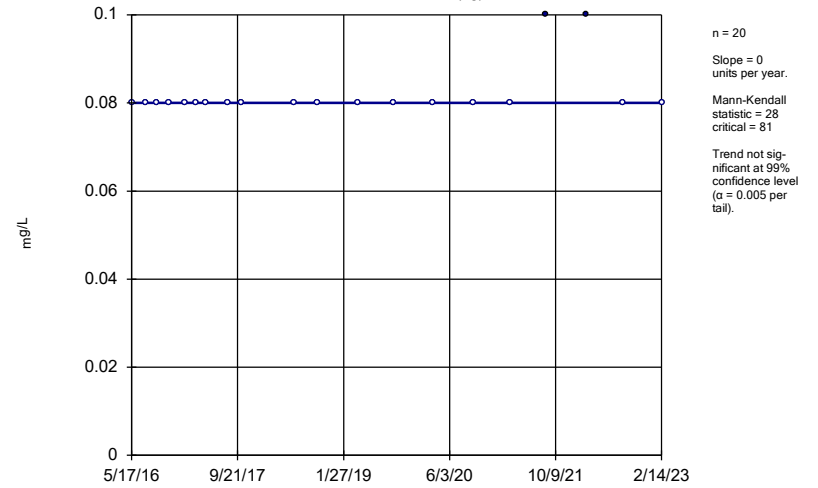
WGWA-1 (bg)



Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

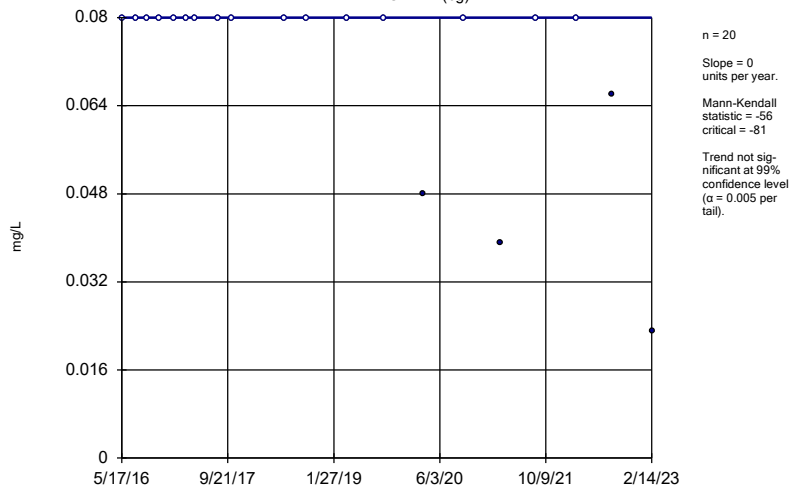
WGWA-18 (bg)



Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

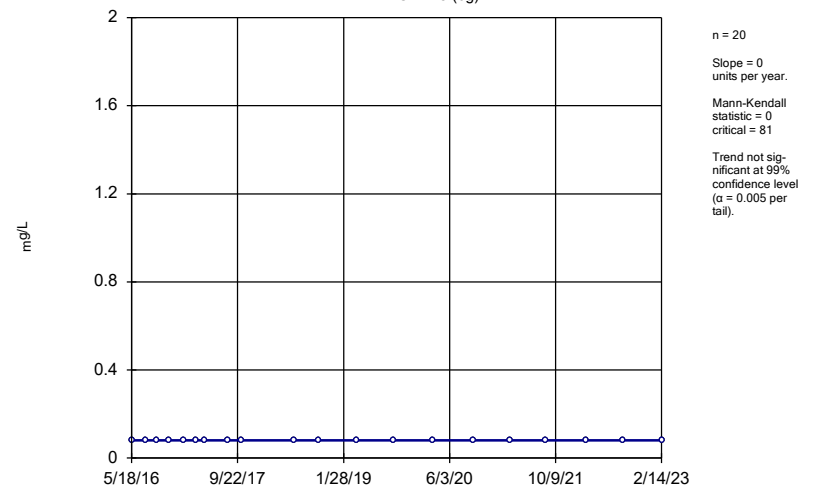
WGWA-2 (bg)



Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

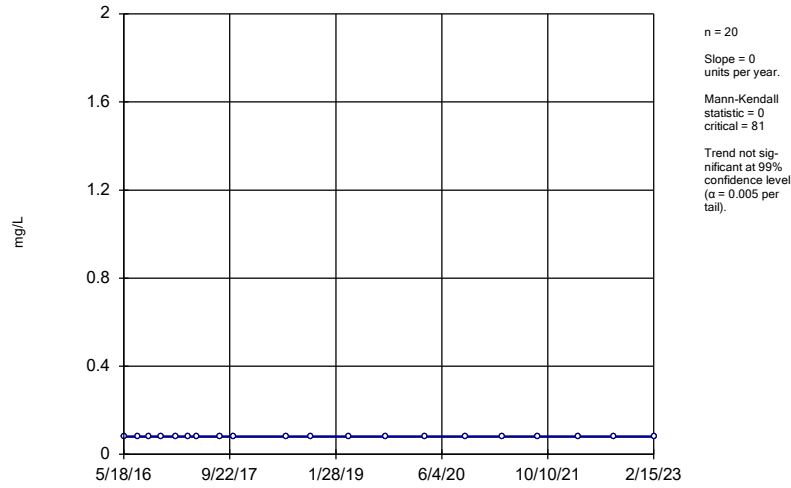
WGWA-3 (bg)



Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

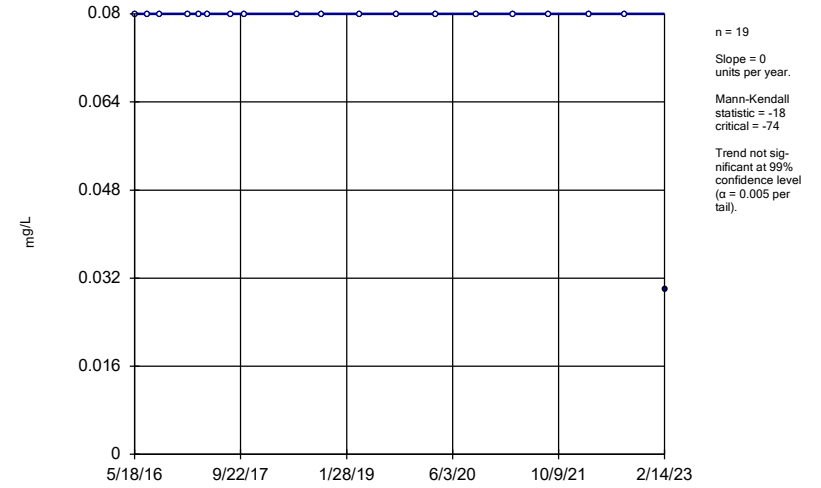
WGWA-4 (bg)



Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

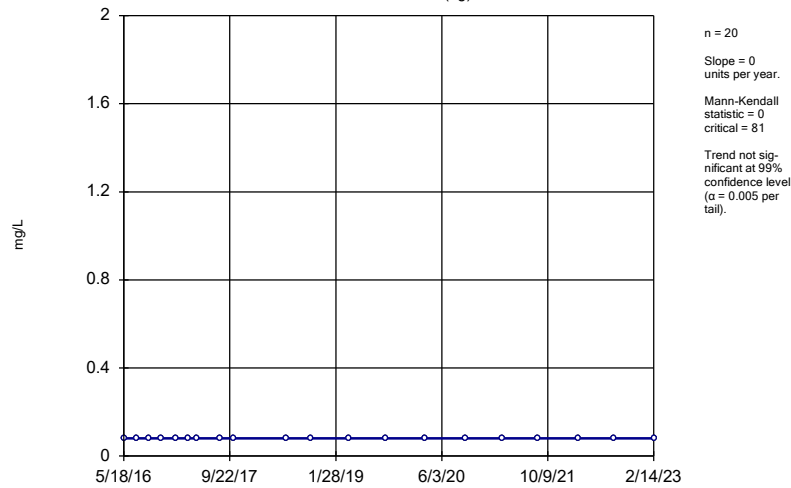
WGWA-5 (bg)



Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

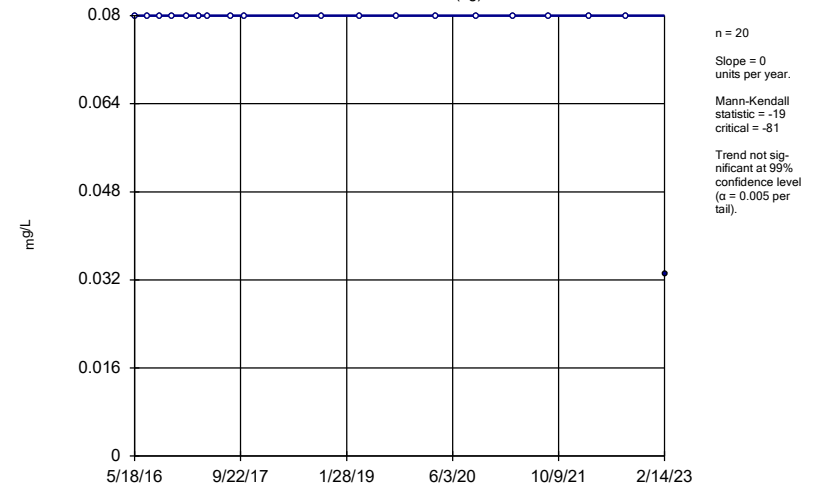
WGWA-6 (bg)



Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

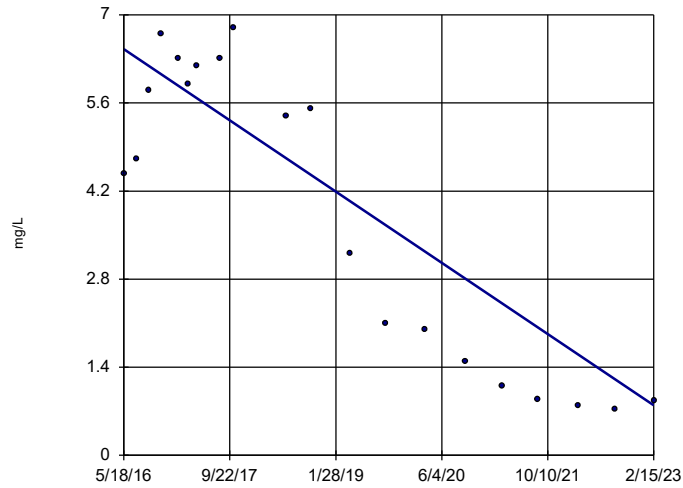
WGWA-7 (bg)



Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-16

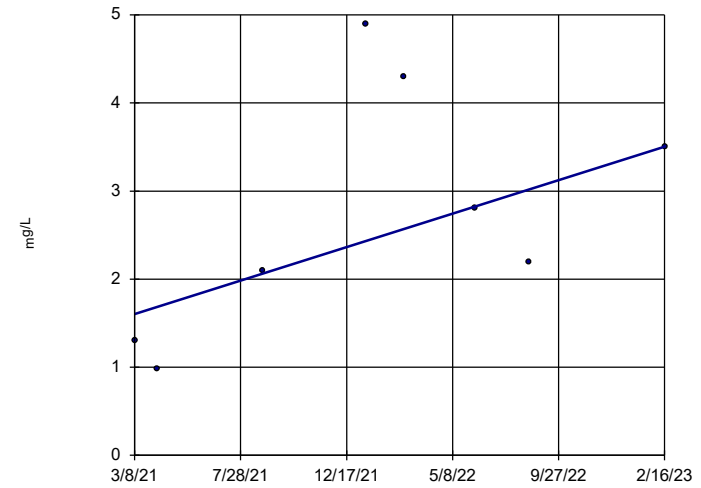


n = 20
 Slope = -0.8386 units per year.
 Mann-Kendall statistic = -117
 critical = -81
 Decreasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-20

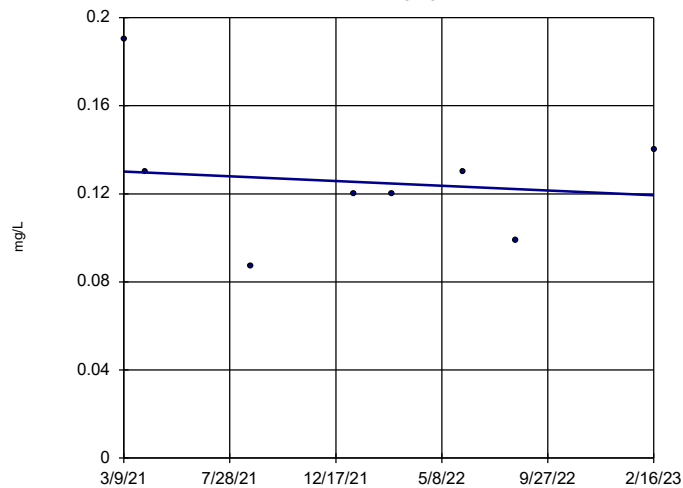


n = 8
 Slope = 0.977 units per year.
 Mann-Kendall statistic = 10
 critical = 21
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-21

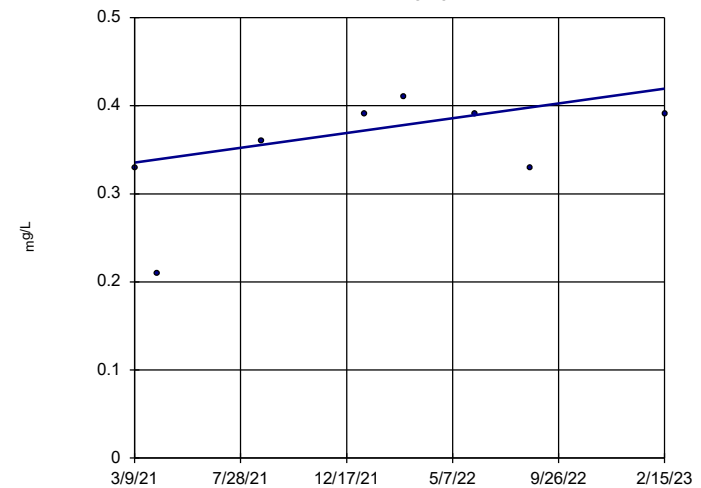


n = 8
 Slope = -0.00553 units per year.
 Mann-Kendall statistic = -2
 critical = -21
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-22

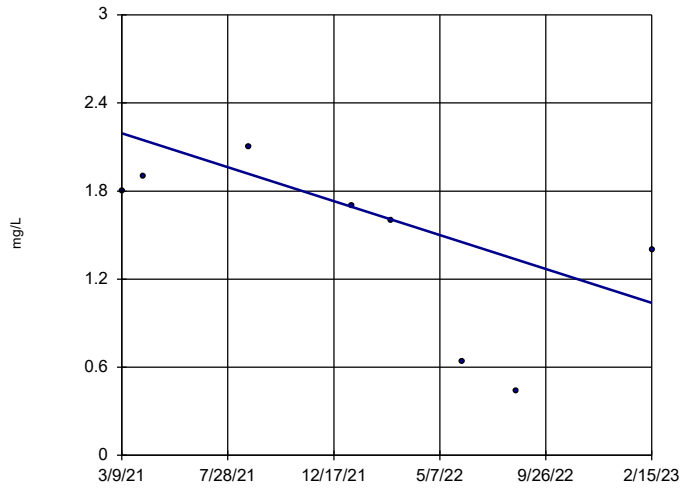


n = 8
 Slope = 0.04328 units per year.
 Mann-Kendall statistic = 10
 critical = 21
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-24

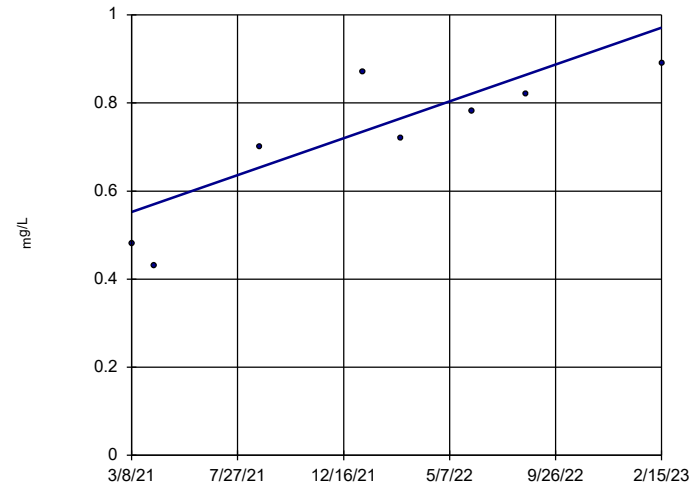


n = 8
 Slope = -0.5953
 units per year.
 Mann-Kendall
 statistic = -18
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-25

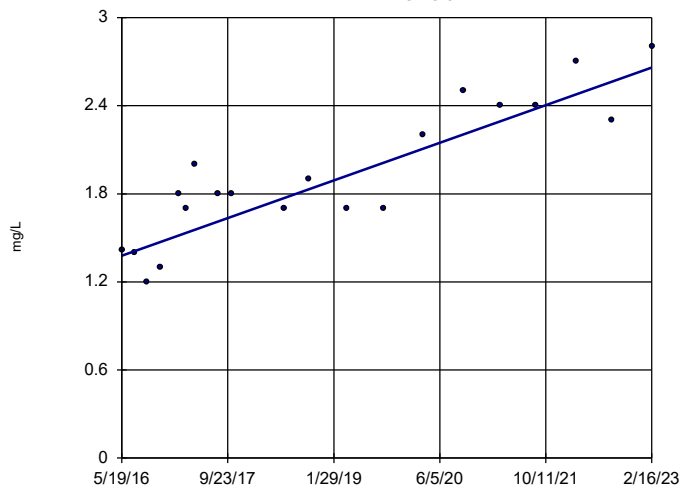


n = 8
 Slope = 0.2155
 units per year.
 Mann-Kendall
 statistic = 20
 critical = 21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-8

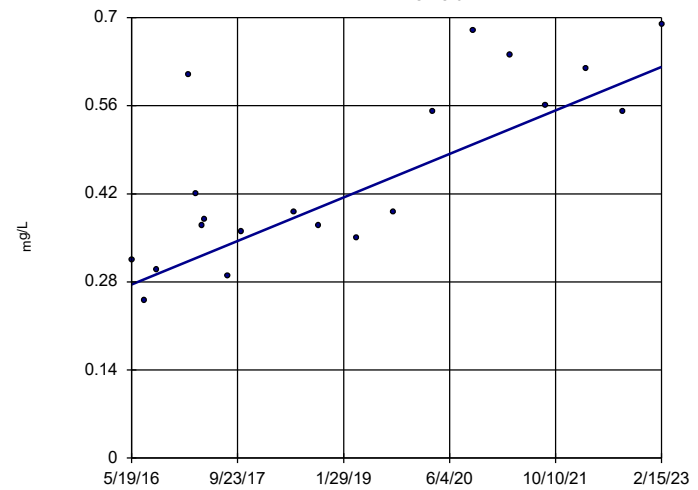


n = 20
 Slope = 0.1899
 units per year.
 Mann-Kendall
 statistic = 122
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-9

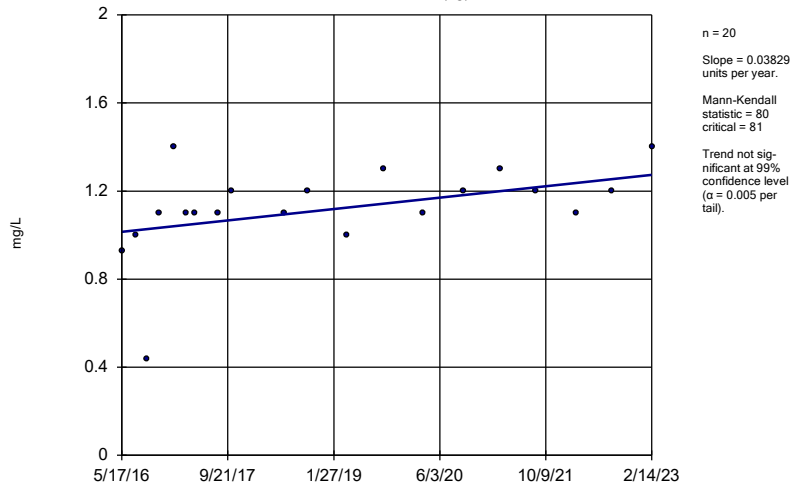


n = 20
 Slope = 0.05128
 units per year.
 Mann-Kendall
 statistic = 99
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

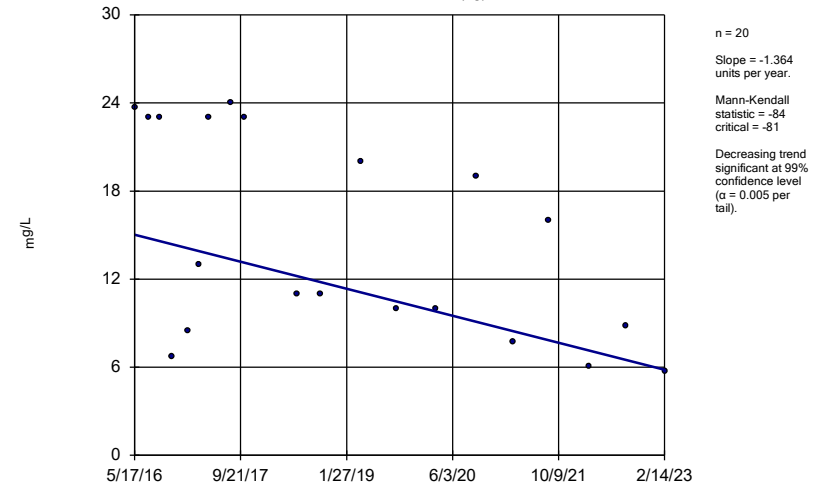
WGWA-1 (bg)



Constituent: Calcium, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

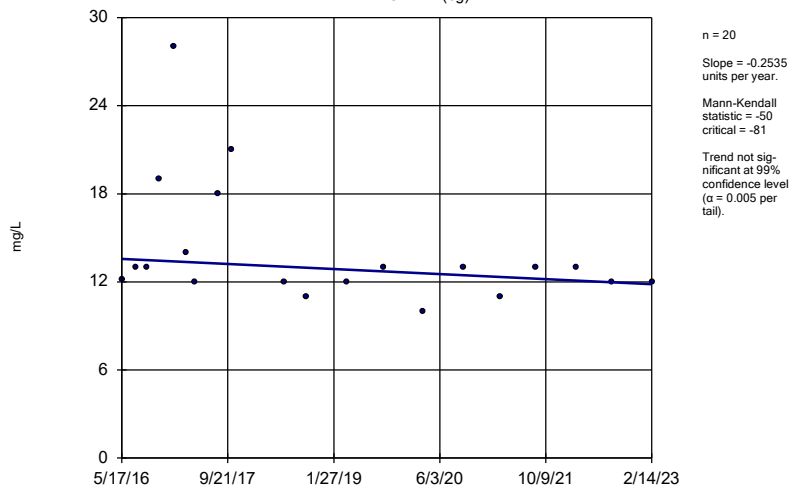
WGWA-18 (bg)



Constituent: Calcium, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

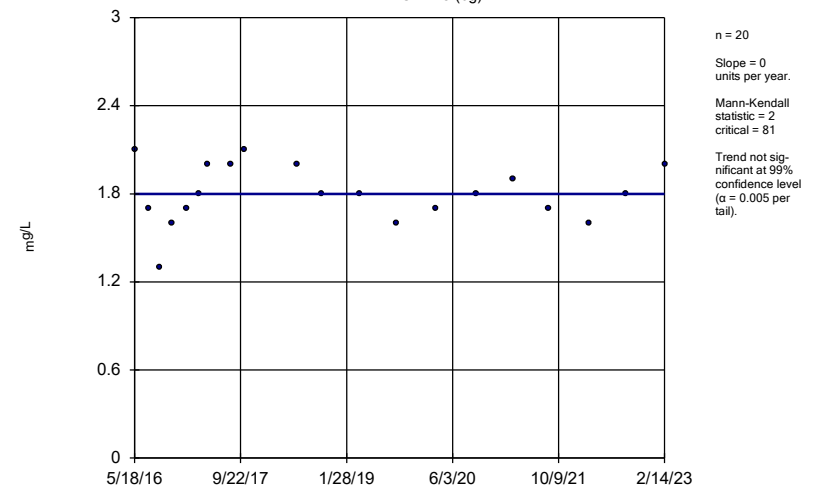
WGWA-2 (bg)



Constituent: Calcium, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

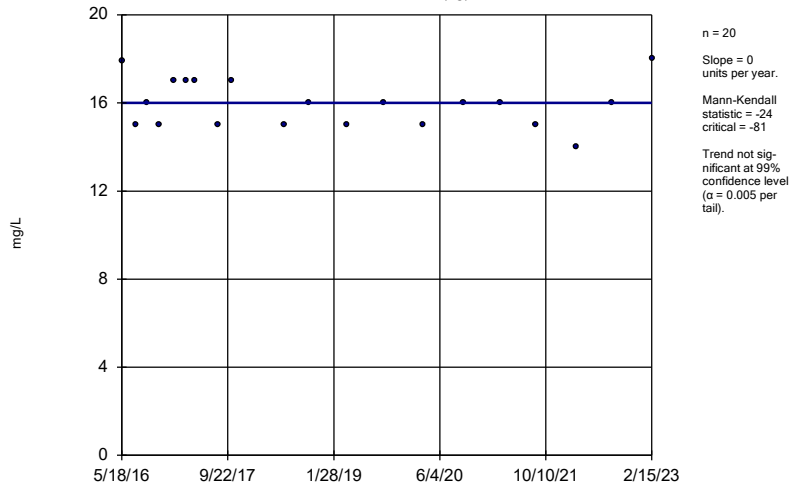
WGWA-3 (bg)



Constituent: Calcium, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

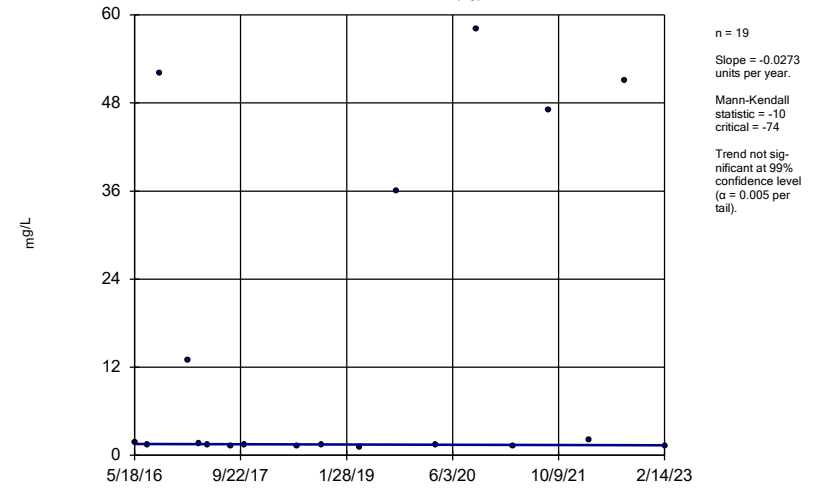
WGWA-4 (bg)



Constituent: Calcium, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

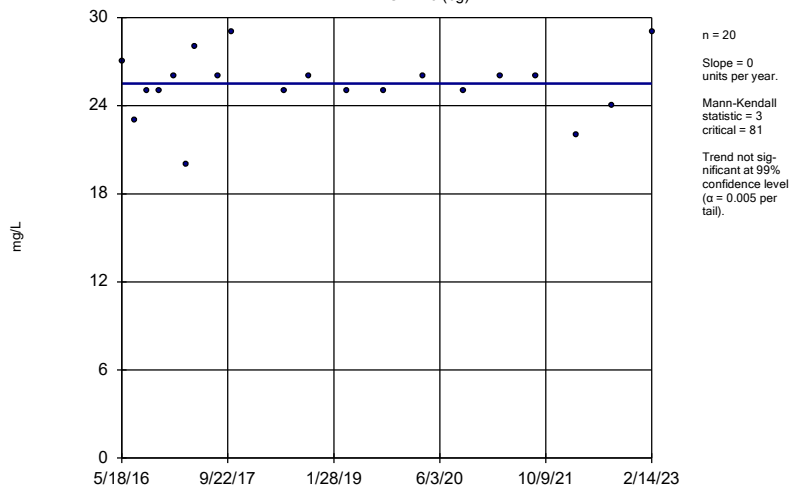
WGWA-5 (bg)



Constituent: Calcium, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

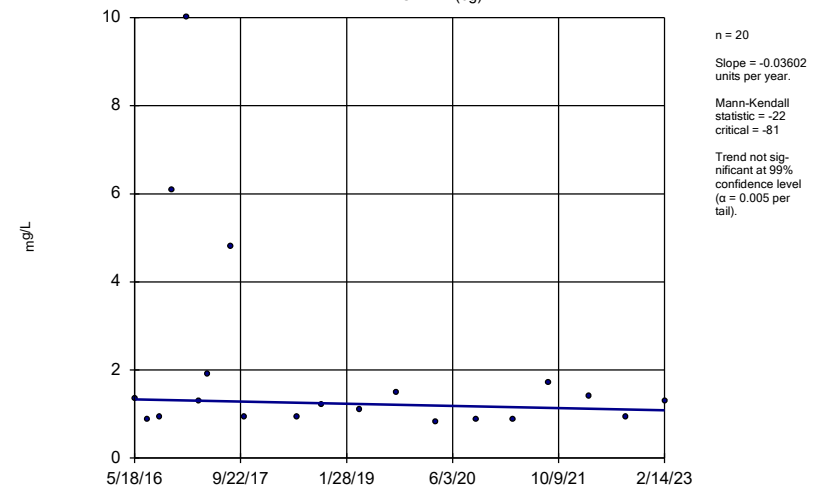
WGWA-6 (bg)



Constituent: Calcium, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

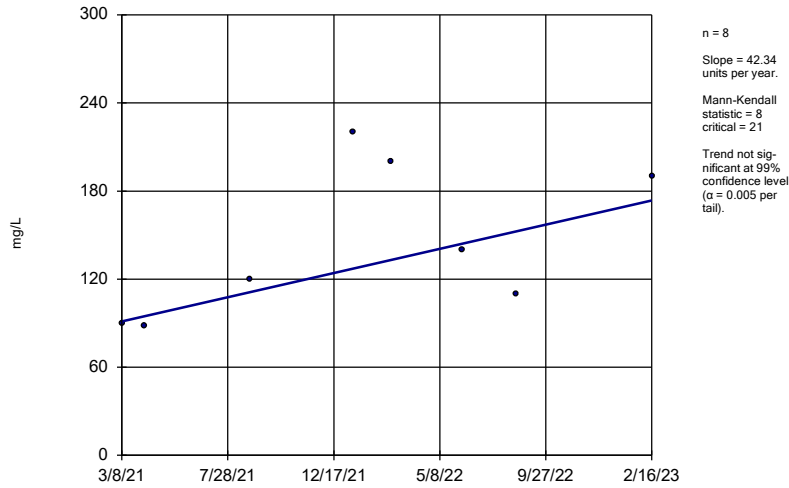
WGWA-7 (bg)



Constituent: Calcium, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

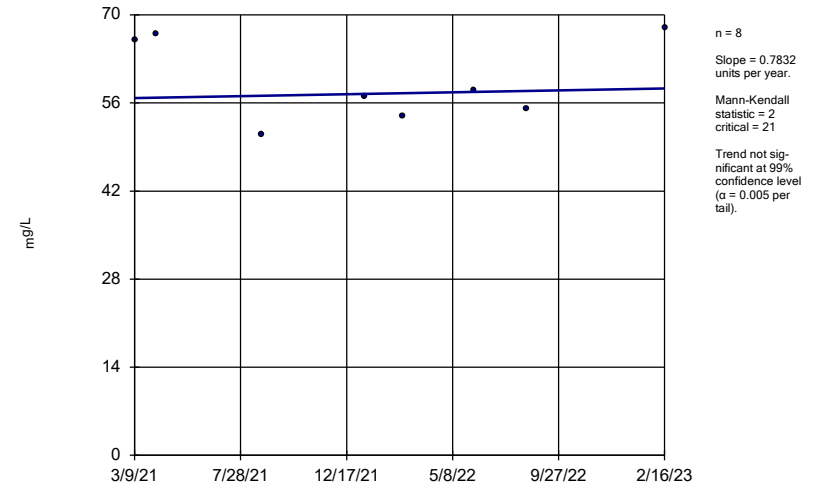
WGWC-20



Constituent: Calcium, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

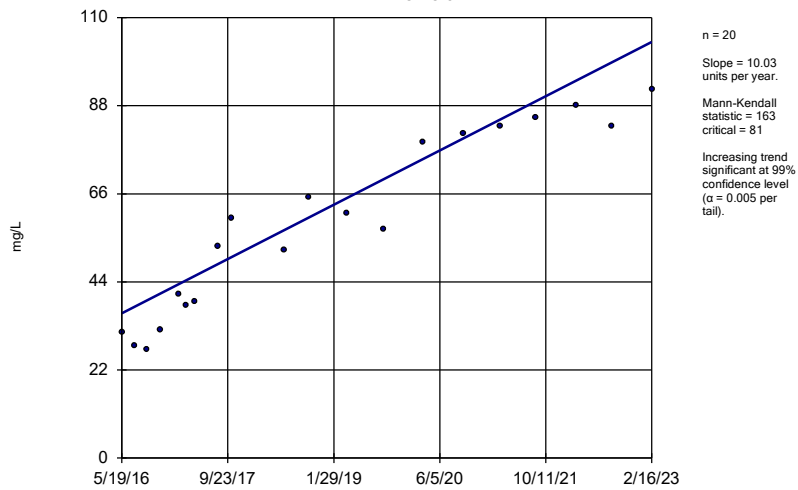
WGWC-21



Constituent: Calcium, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

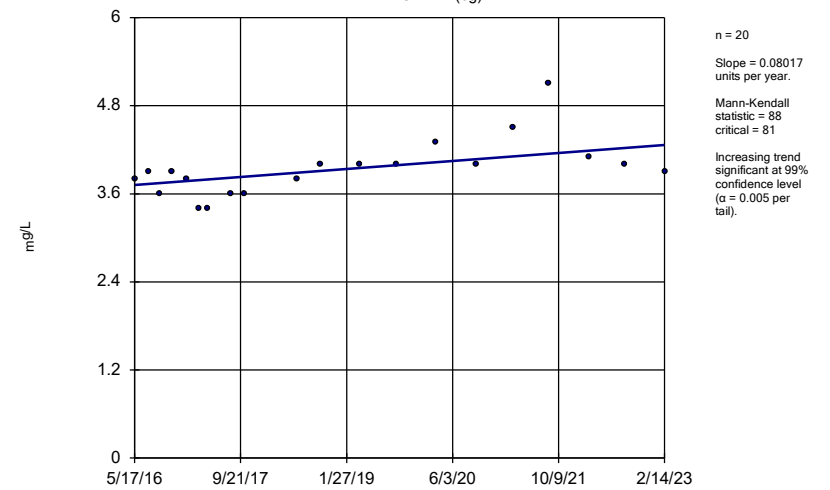
WGWC-8



Constituent: Calcium, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

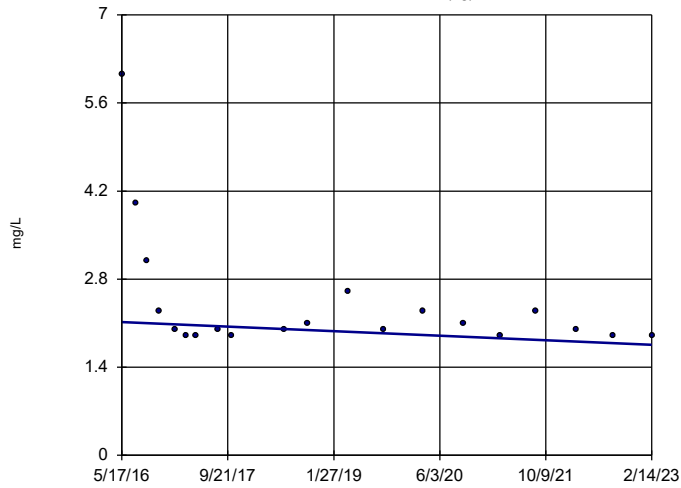
WGWA-1 (bg)



Constituent: Chloride, Total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-18 (bg)

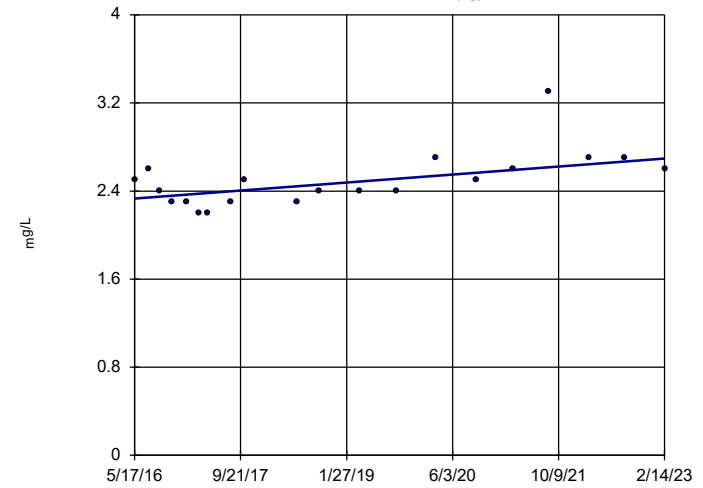


n = 20
 Slope = -0.05405
 units per year.
 Mann-Kendall
 statistic = -59
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride, Total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-2 (bg)

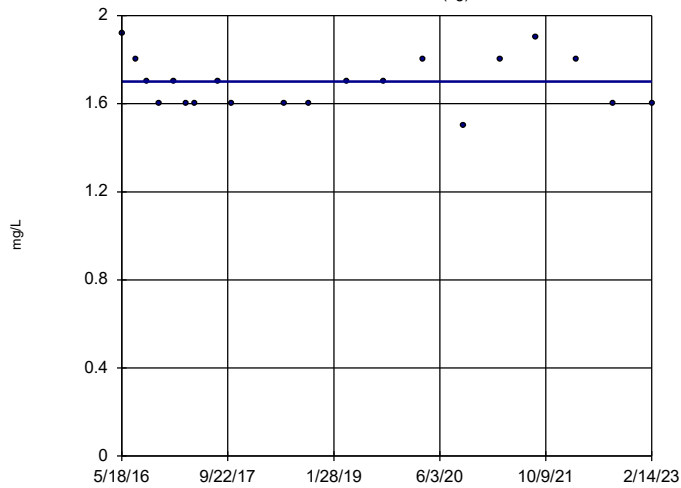


n = 20
 Slope = 0.05384
 units per year.
 Mann-Kendall
 statistic = 80
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride, Total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-3 (bg)

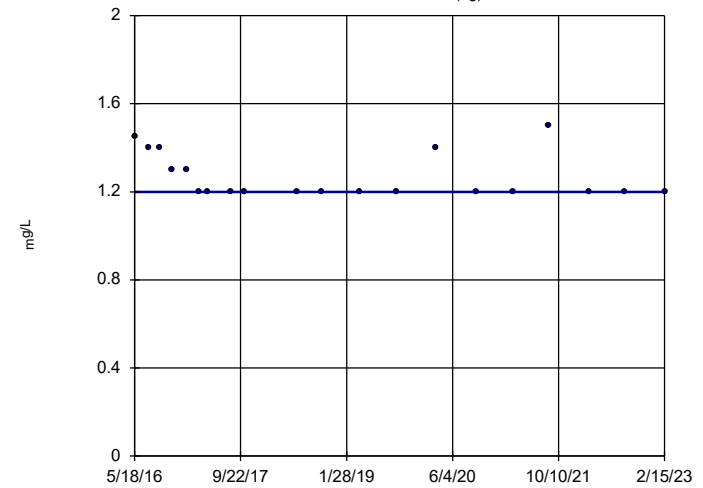


n = 20
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -10
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride, Total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-4 (bg)

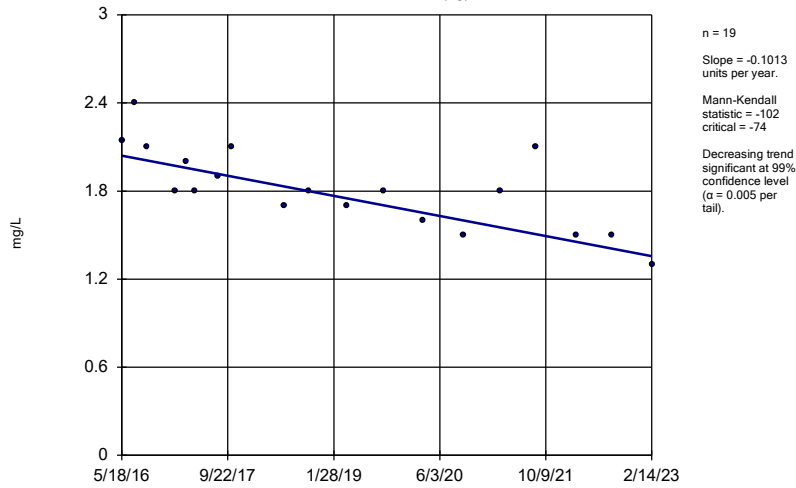


n = 20
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -56
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride, Total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

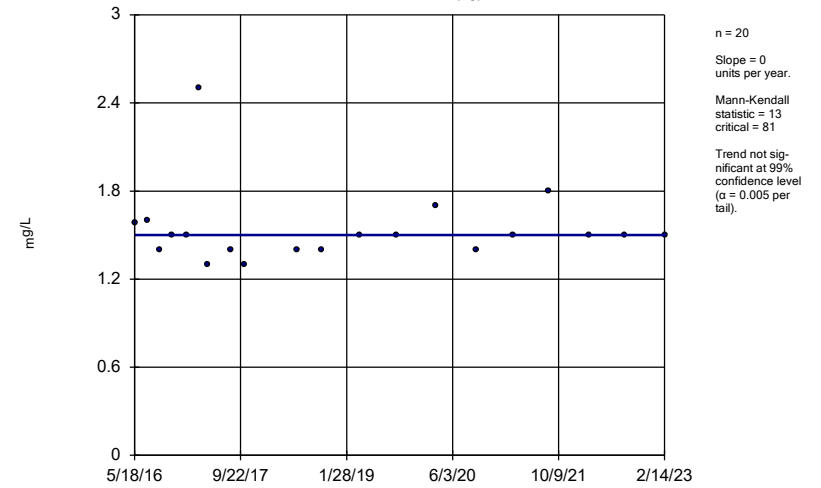
WGWA-5 (bg)



Constituent: Chloride, Total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

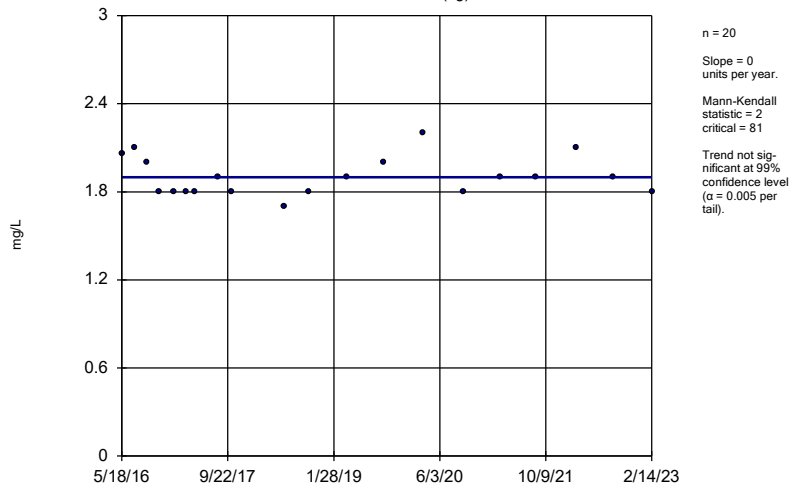
WGWA-6 (bg)



Constituent: Chloride, Total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

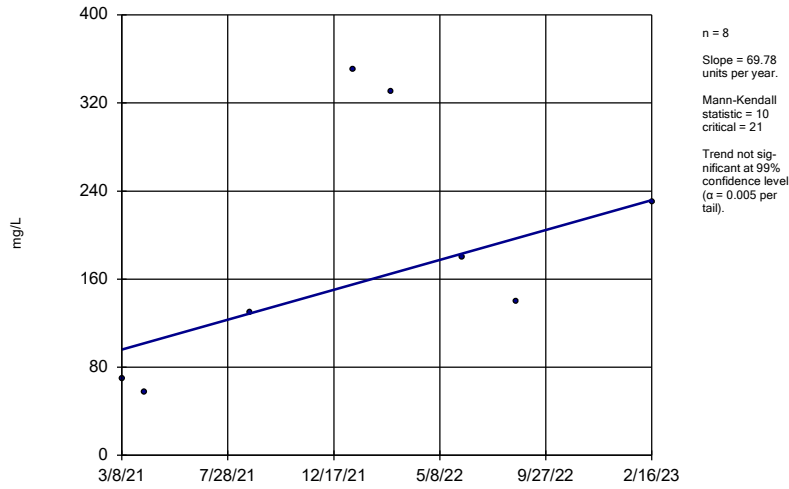
Sen's Slope Estimator

WGWA-7 (bg)



Sen's Slope Estimator

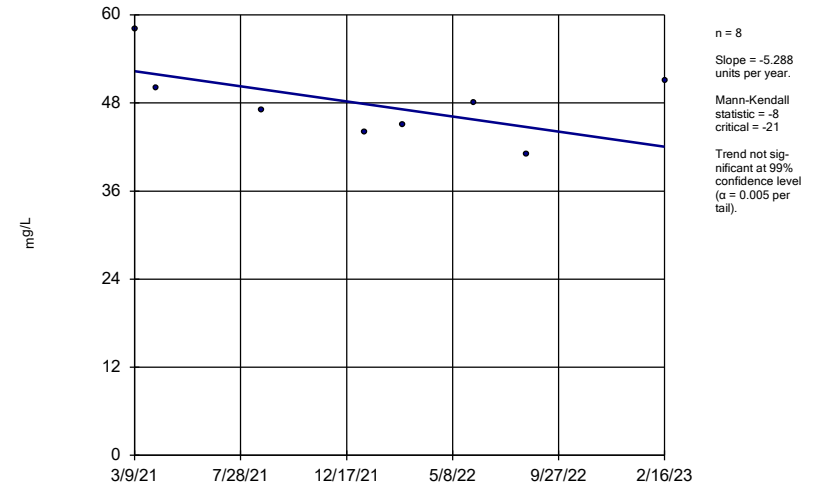
WGWC-20



Constituent: Chloride, Total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

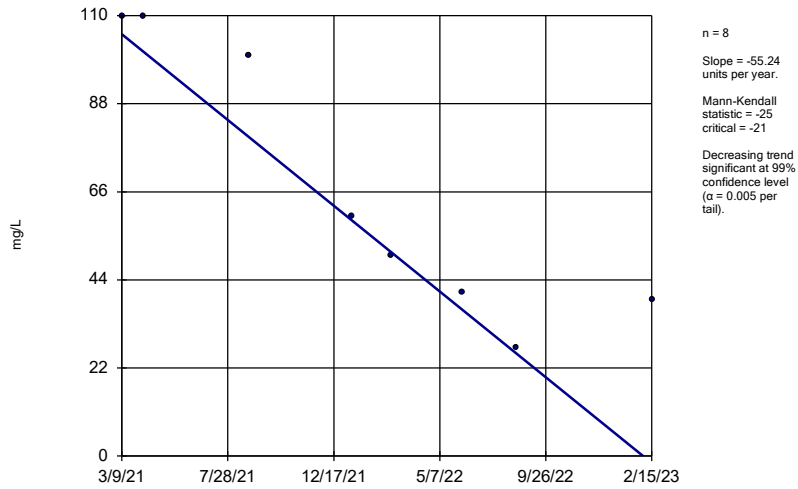
WGWC-21



Constituent: Chloride, Total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

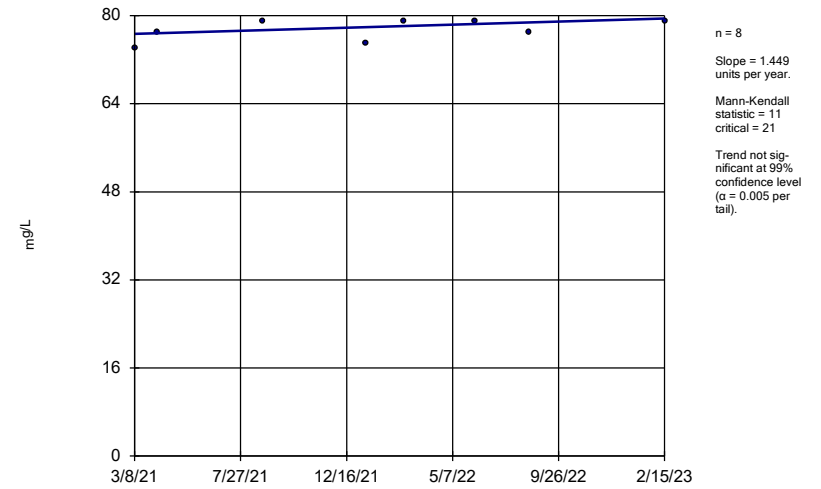
WGWC-24



Constituent: Chloride, Total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

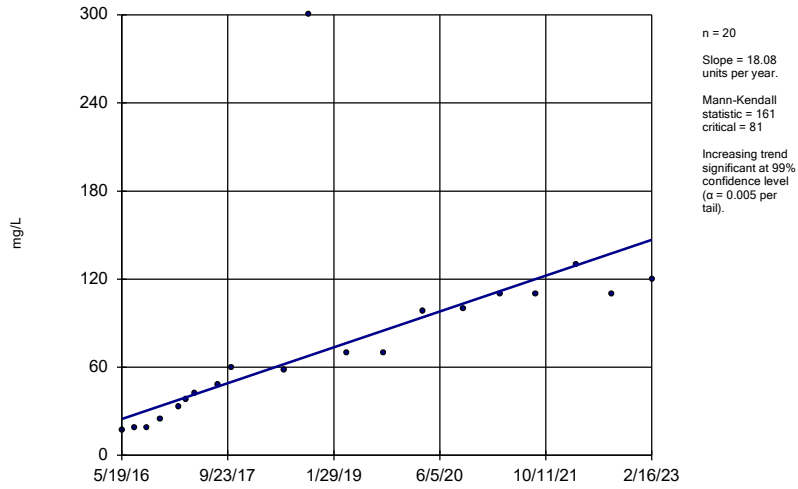
WGWC-25



Constituent: Chloride, Total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-8

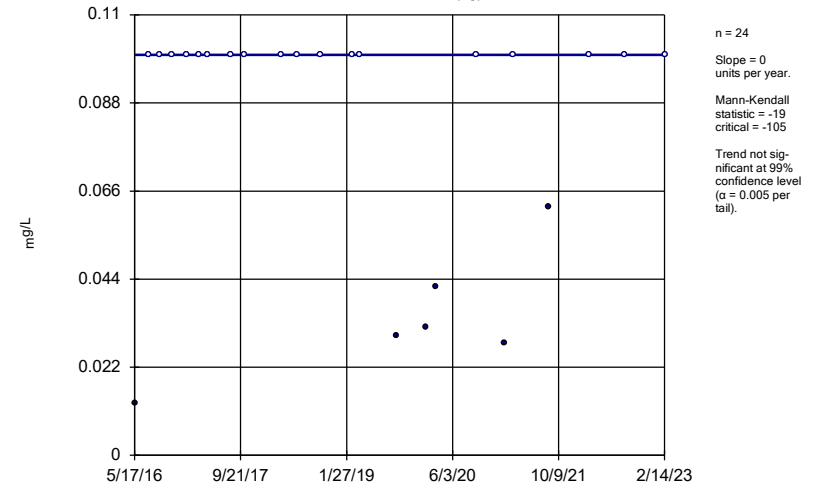


Constituent: Chloride, Total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-1 (bg)

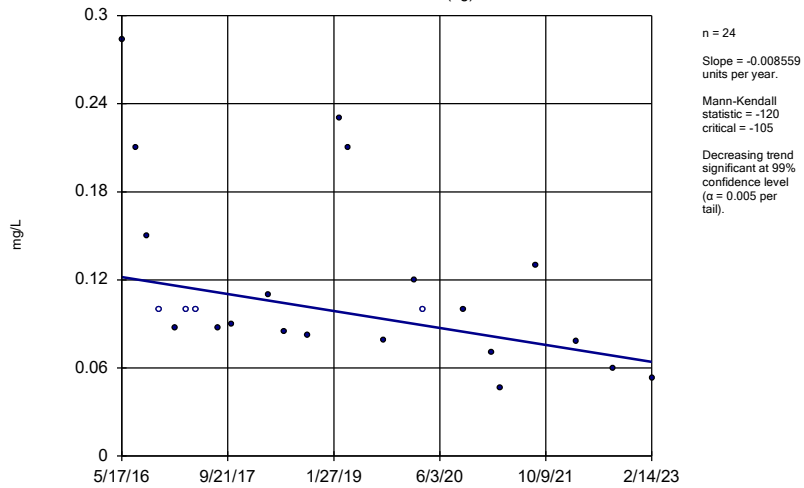


Constituent: Fluoride, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-18 (bg)

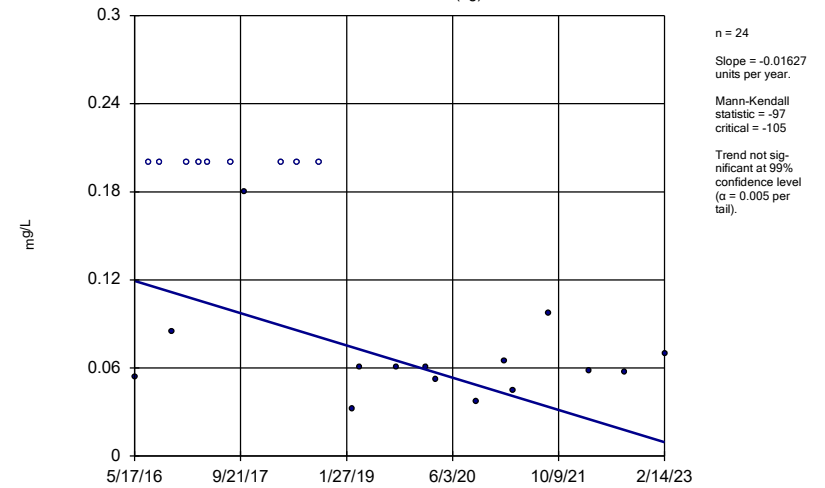


Constituent: Fluoride, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

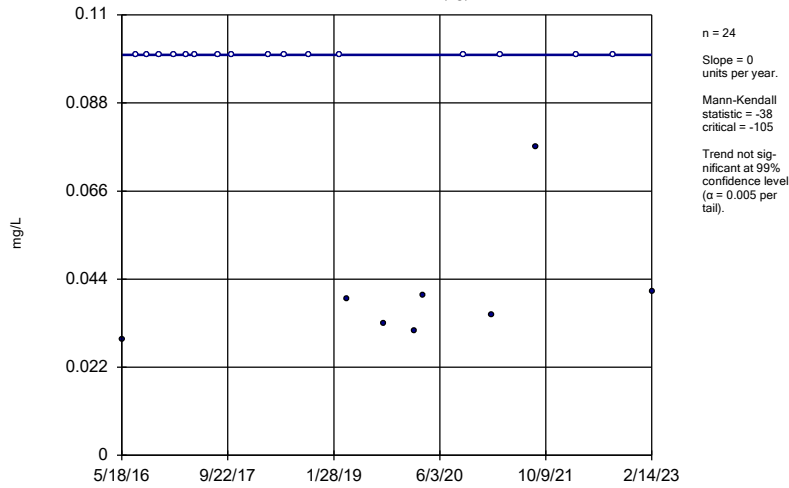
WGWA-2 (bg)



Constituent: Fluoride, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

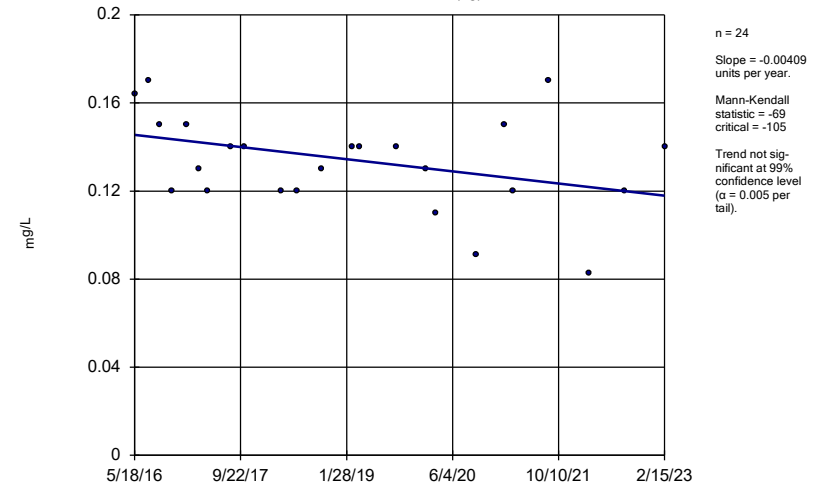
WGWA-3 (bg)



Constituent: Fluoride, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

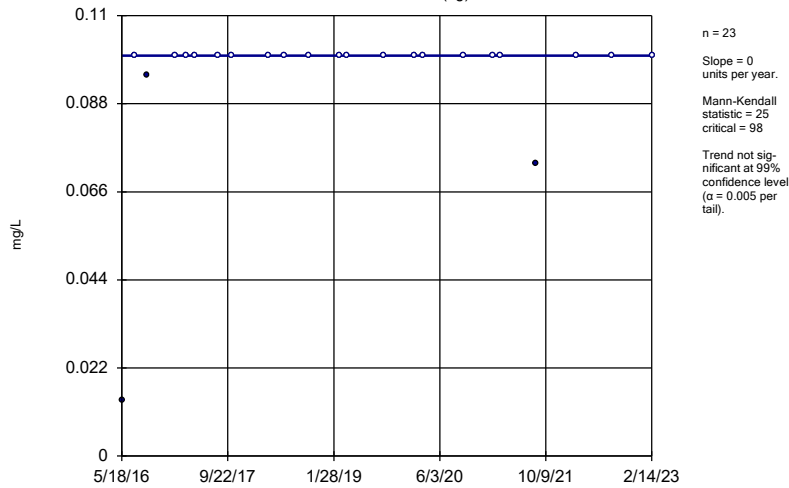
WGWA-4 (bg)



Constituent: Fluoride, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

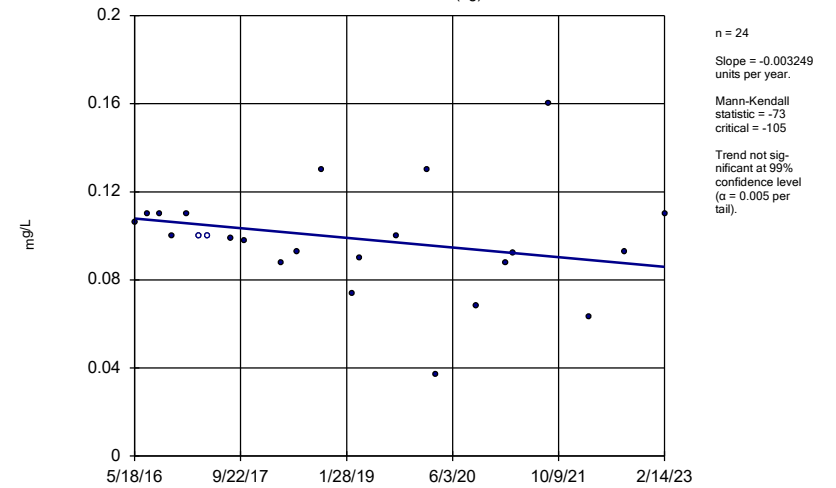
WGWA-5 (bg)



Constituent: Fluoride, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

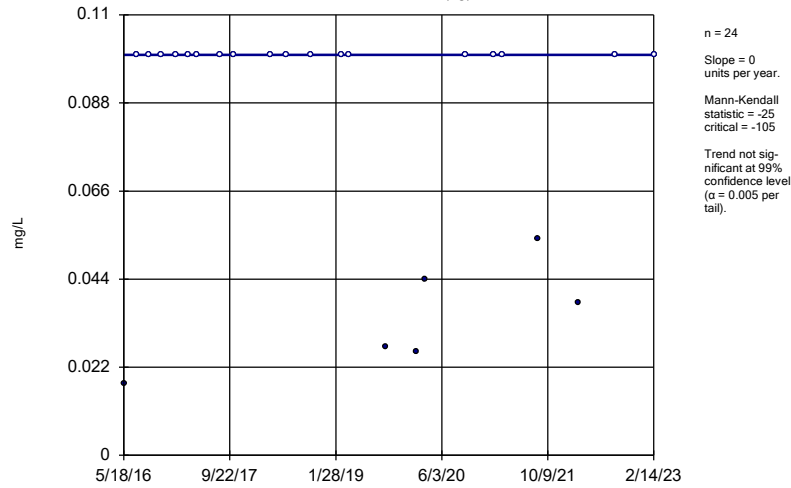
WGWA-6 (bg)



Constituent: Fluoride, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

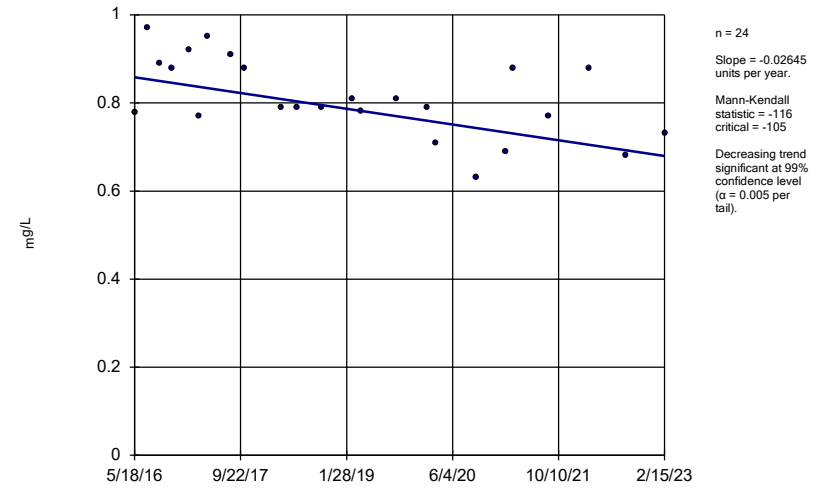
WGWA-7 (bg)



Constituent: Fluoride, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

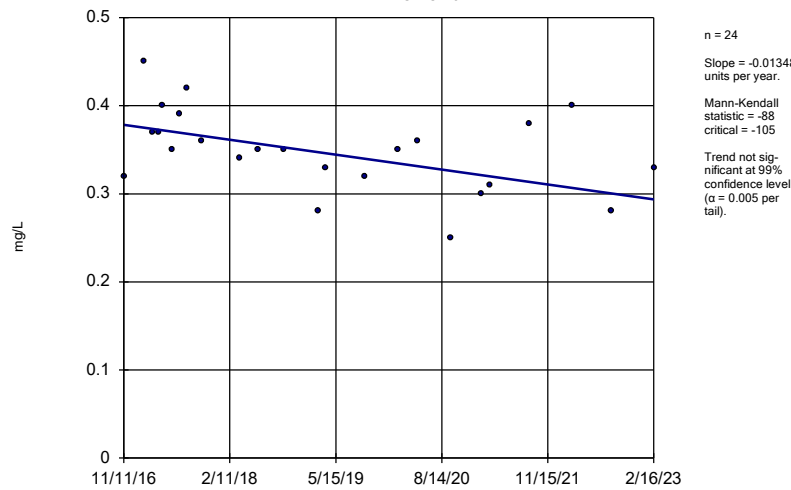
WGWC-15



Constituent: Fluoride, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

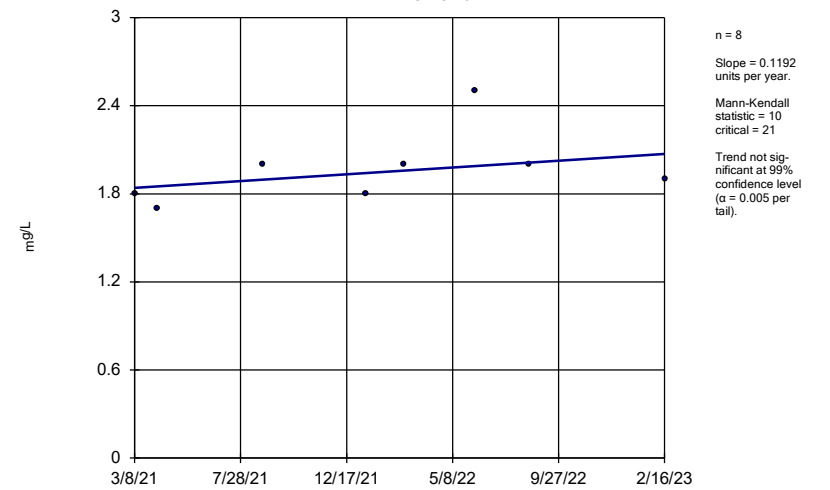
WGWC-19



Constituent: Fluoride, total Analysis Run 4/20/2023 12:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

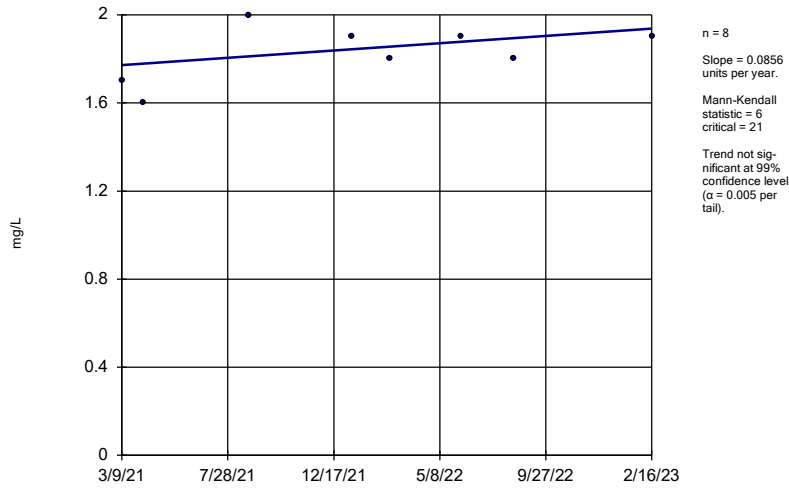
WGWC-20



Constituent: Fluoride, total Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

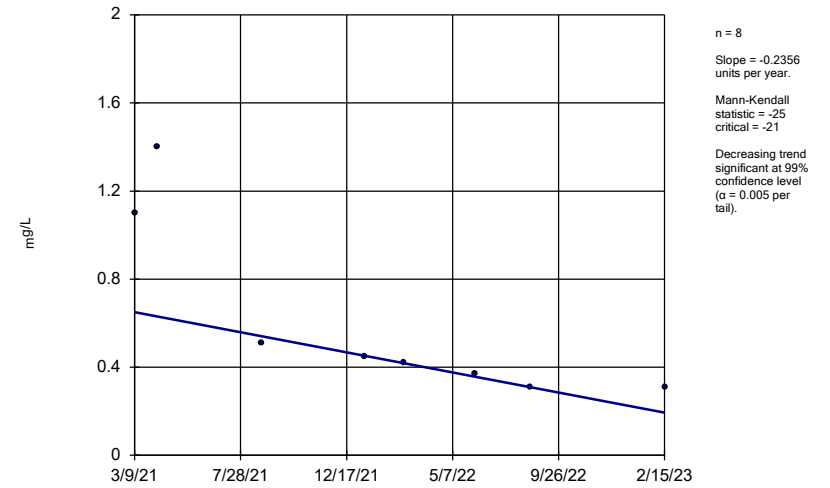
WGWC-21



Constituent: Fluoride, total Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

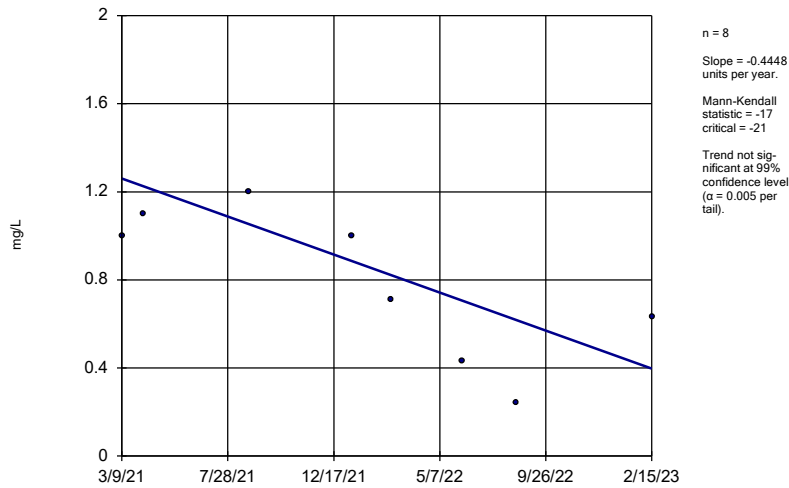
WGWC-22



Constituent: Fluoride, total Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

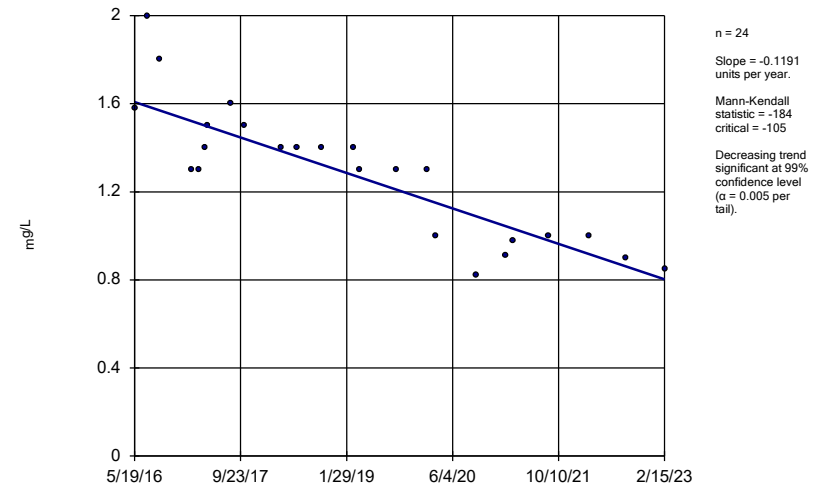
WGWC-24



Constituent: Fluoride, total Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

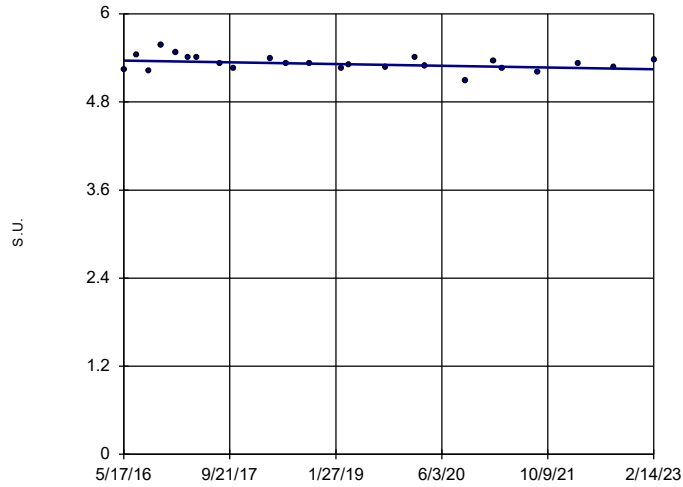
WGWC-9



Constituent: Fluoride, total Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-1 (bg)

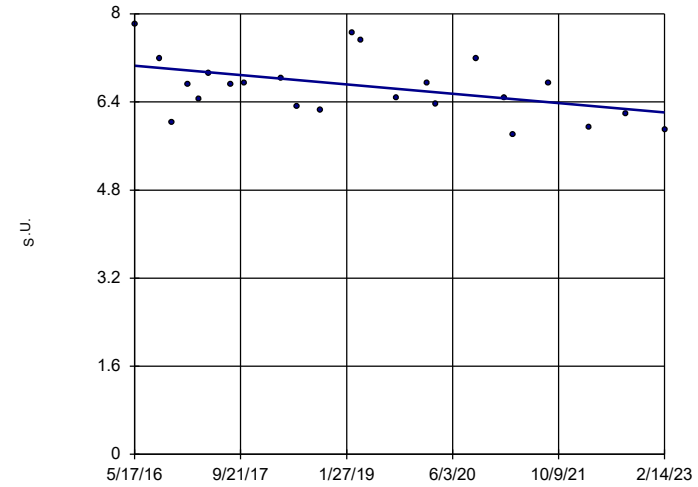


n = 24
 Slope = -0.01725
 units per year.
 Mann-Kendall
 statistic = -67
 critical = -105
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-18 (bg)

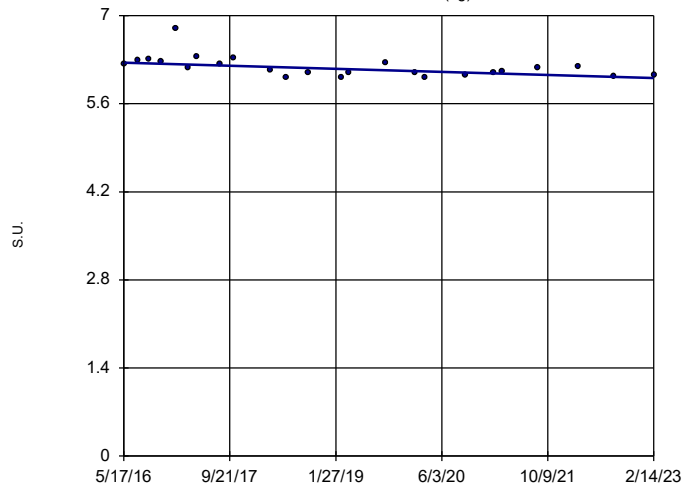


n = 23
 Slope = -0.1261
 units per year.
 Mann-Kendall
 statistic = -78
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-2 (bg)

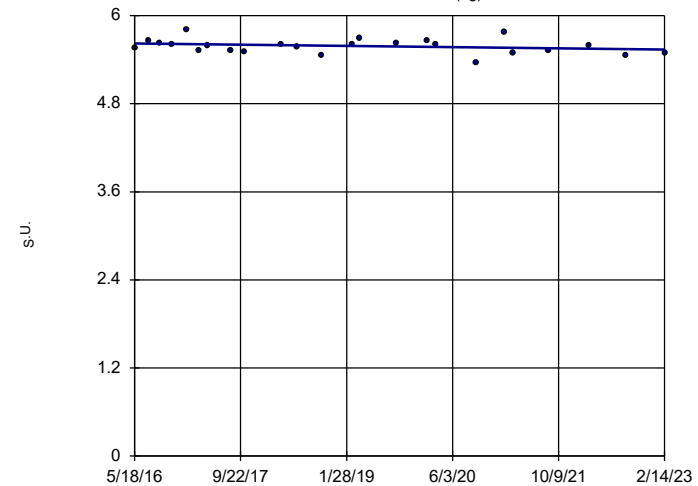


n = 24
 Slope = -0.03618
 units per year.
 Mann-Kendall
 statistic = -111
 critical = -105
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-3 (bg)

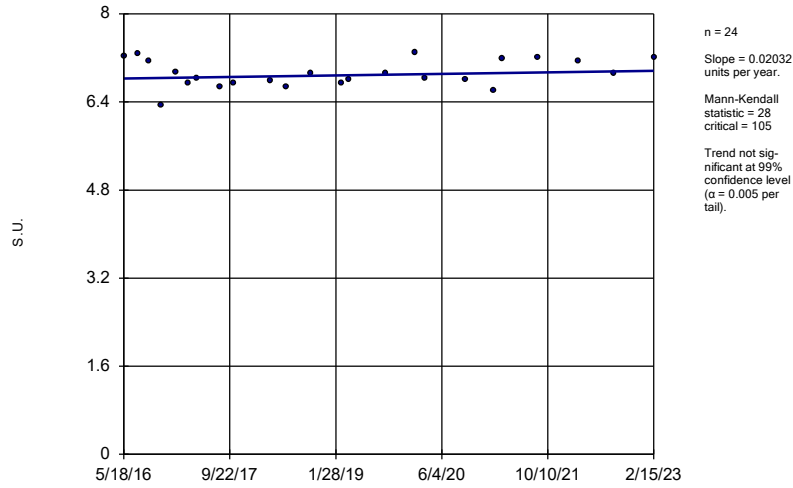


n = 24
 Slope = -0.0126
 units per year.
 Mann-Kendall
 statistic = -59
 critical = -105
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

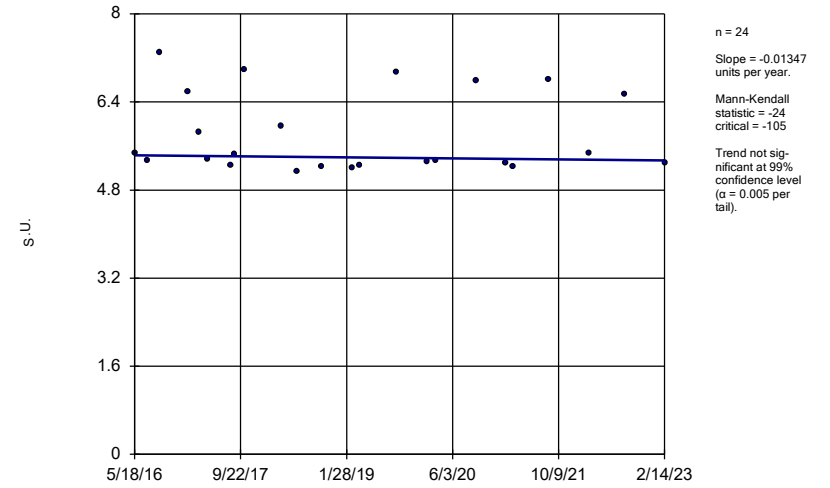
WGWA-4 (bg)



Constituent: pH, Field Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

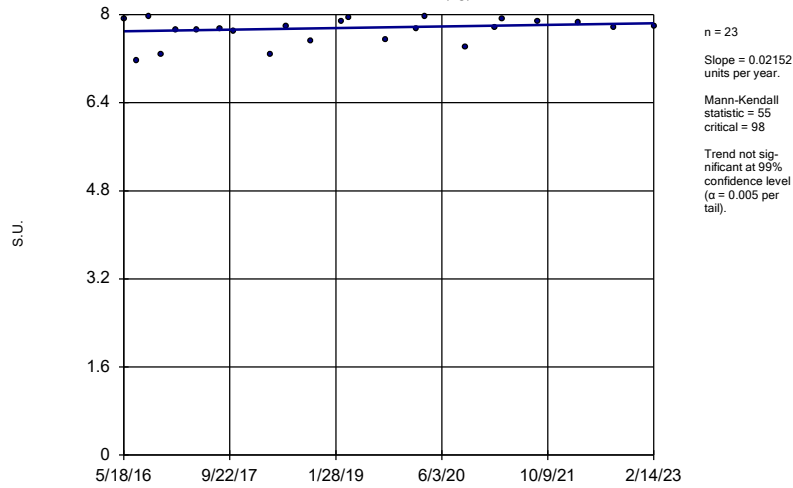
WGWA-5 (bg)



Constituent: pH, Field Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

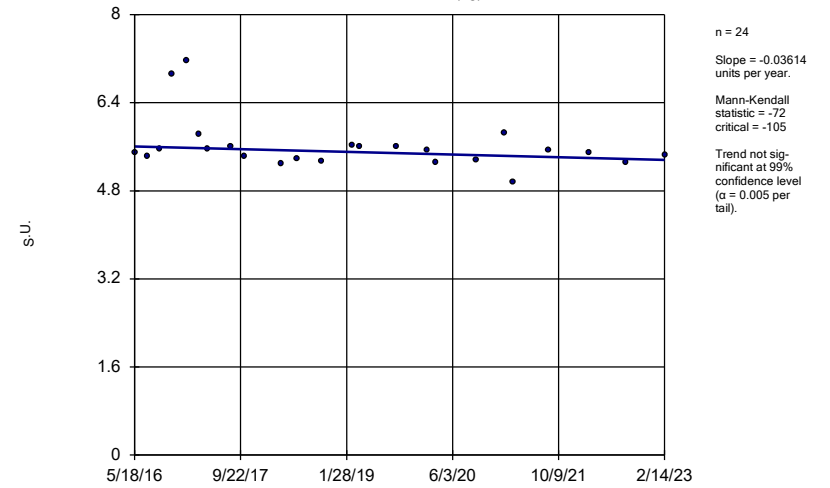
WGWA-6 (bg)



Constituent: pH, Field Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

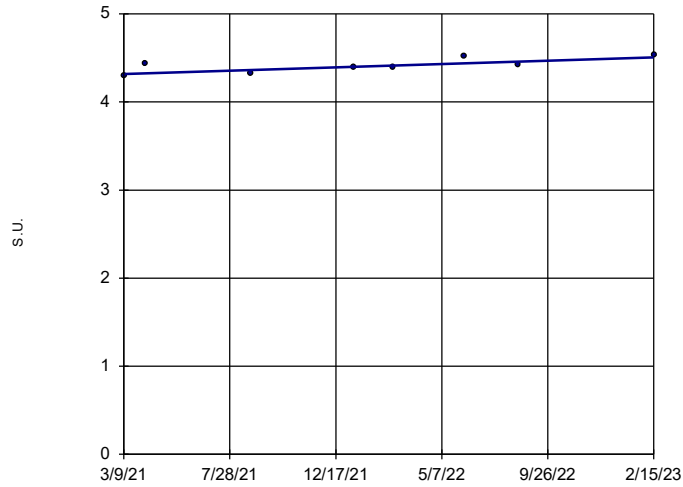
WGWA-7 (bg)



Constituent: pH, Field Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-24



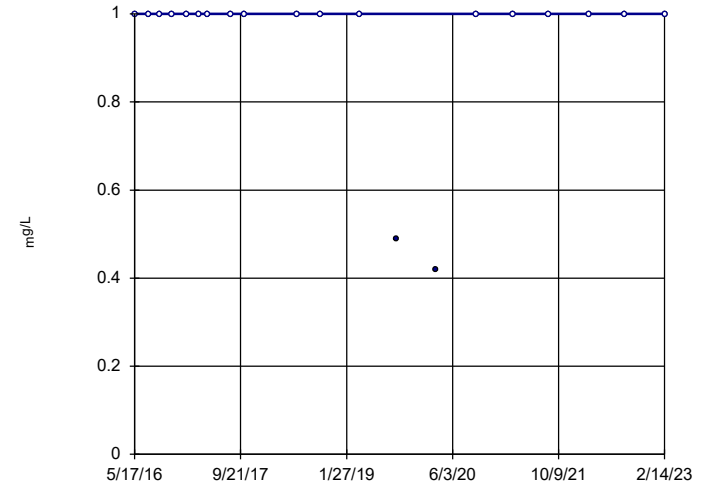
n = 8
 Slope = 0.09684 units per year.
 Mann-Kendall statistic = 17
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-1 (bg)

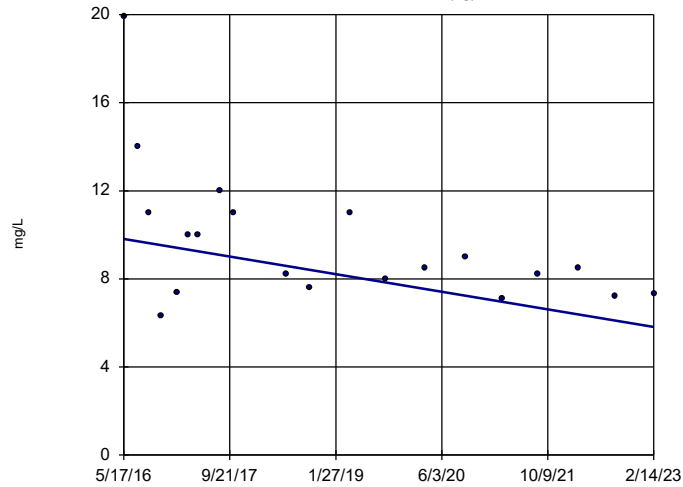


n = 20
 Slope = 0 units per year.
 Mann-Kendall statistic = -13
 critical = -81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-18 (bg)

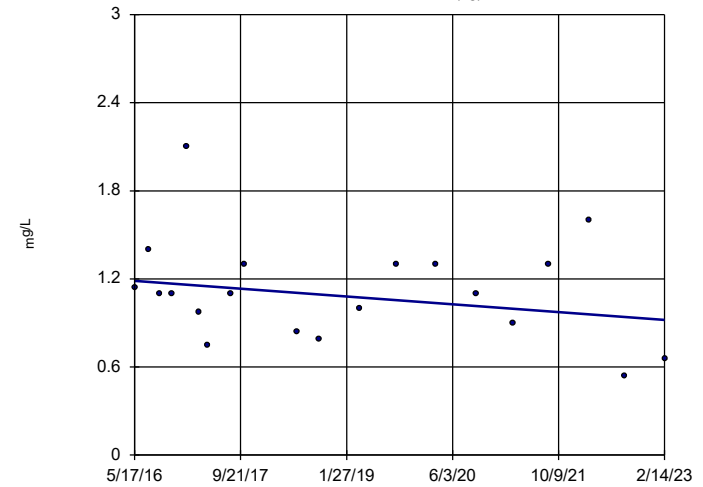


n = 20
 Slope = -0.5911 units per year.
 Mann-Kendall statistic = -72
 critical = -81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-2 (bg)

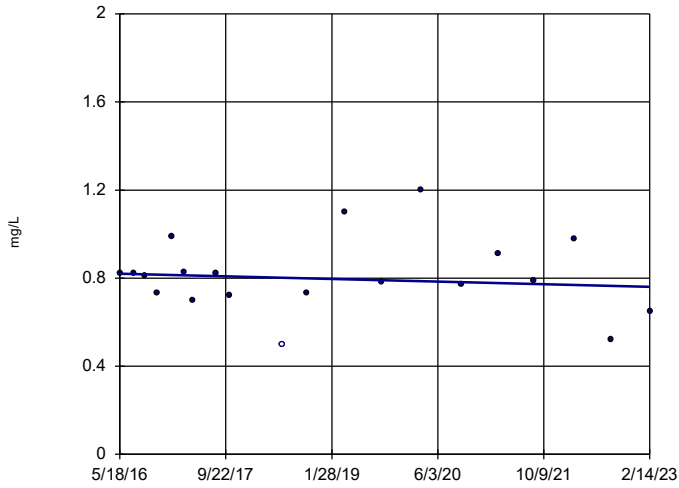


n = 20
 Slope = -0.03939 units per year.
 Mann-Kendall statistic = -32
 critical = -81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-3 (bg)

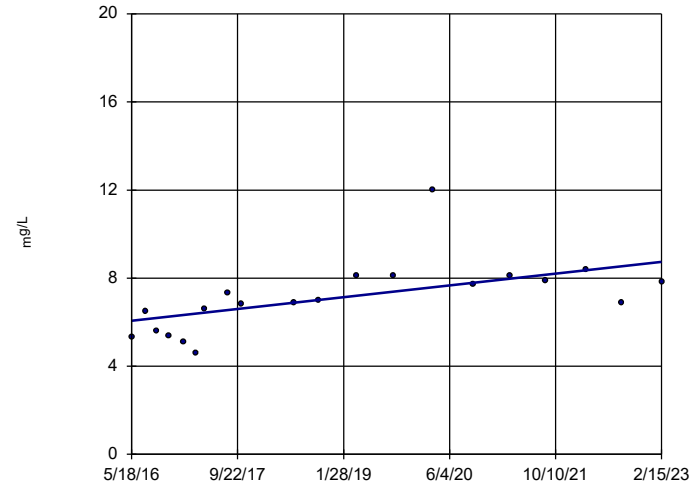


n = 20
Slope = -0.008795
units per year.
Mann-Kendall
statistic = -18
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-4 (bg)

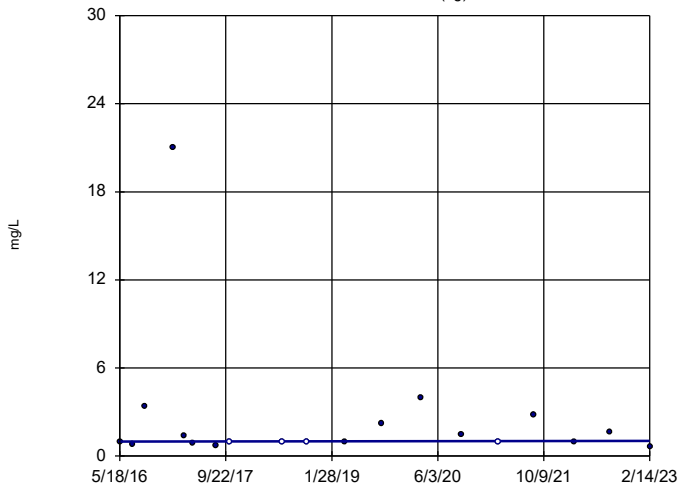


n = 20
Slope = 0.3955
units per year.
Mann-Kendall
statistic = 108
critical = 81
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-5 (bg)

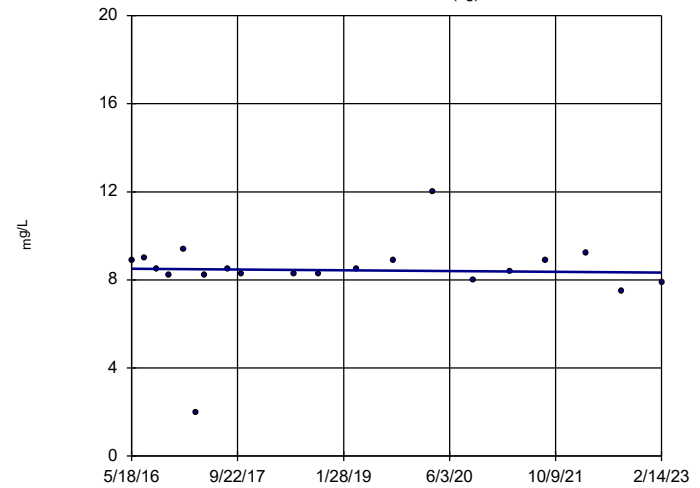


n = 19
Slope = 0.006046
units per year.
Mann-Kendall
statistic = 7
critical = 74
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-6 (bg)

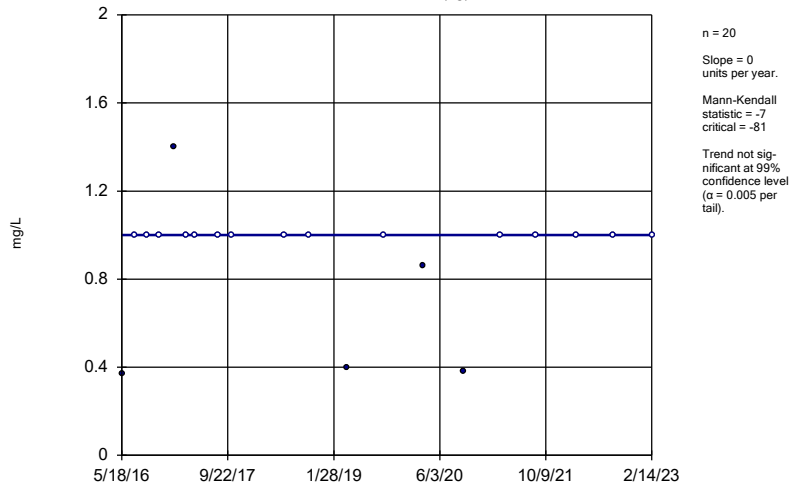


n = 20
Slope = -0.02505
units per year.
Mann-Kendall
statistic = -12
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

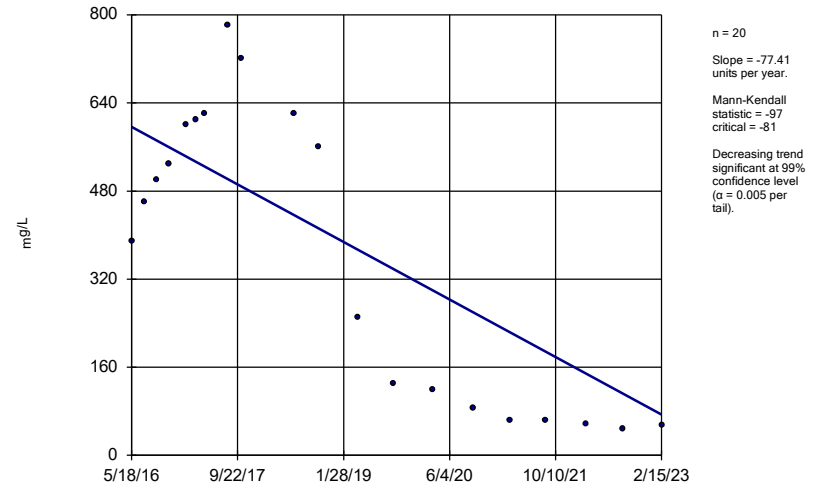
WGWA-7 (bg)



Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

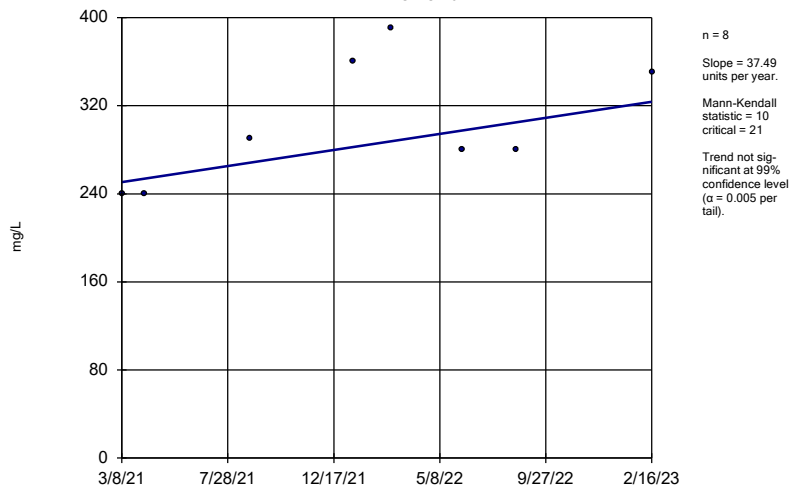
WGWC-16



Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

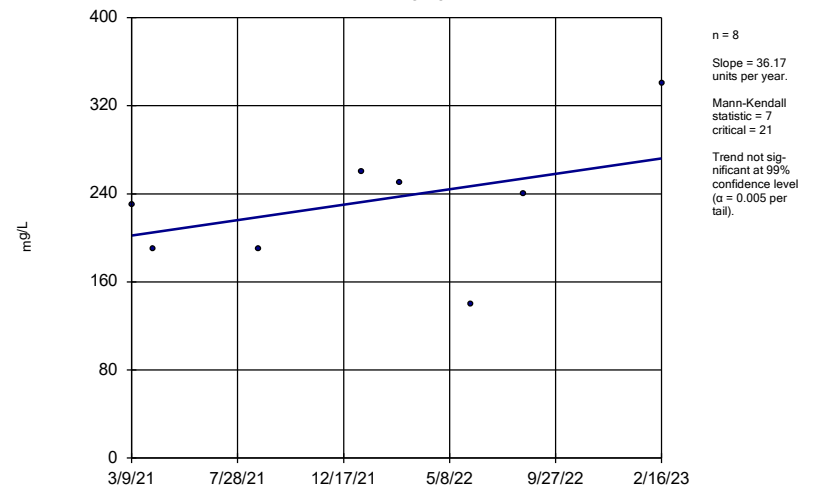
WGWC-20



Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

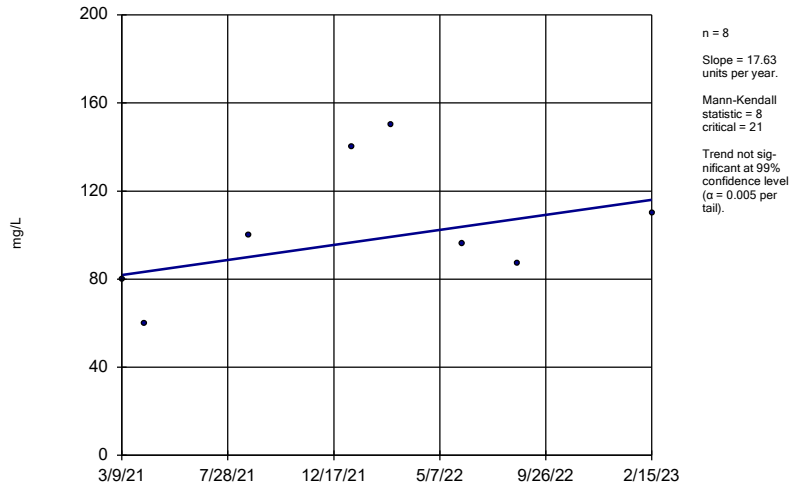
WGWC-21



Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

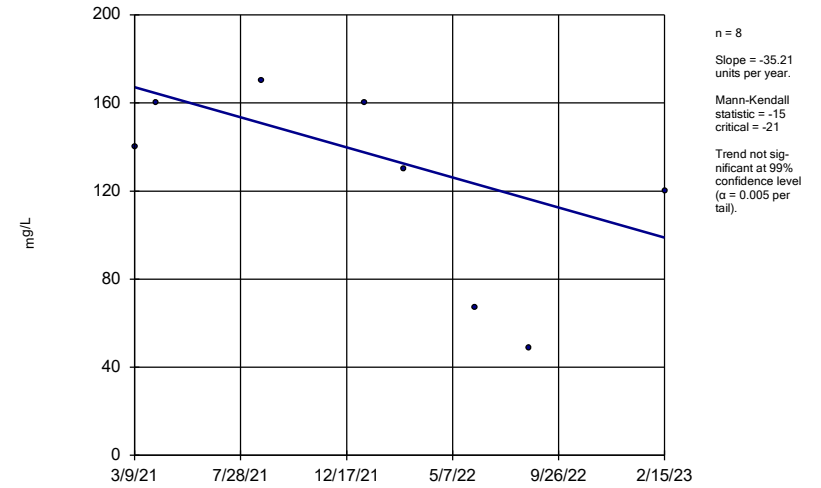
WGWC-22



Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

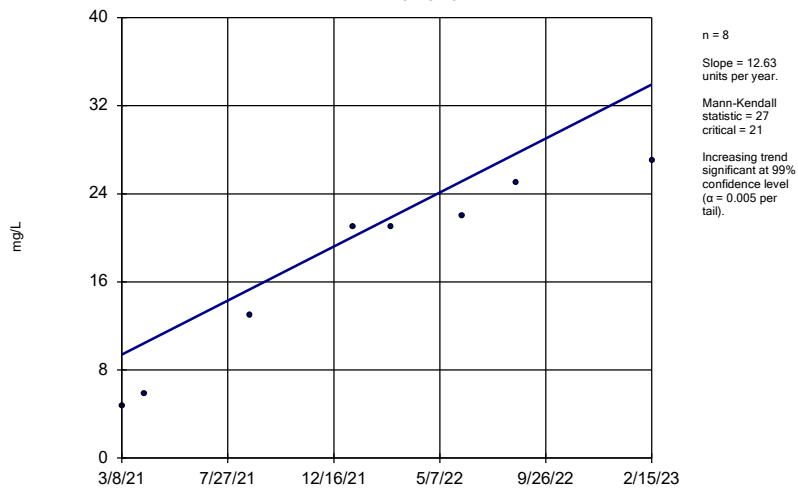
WGWC-24



Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

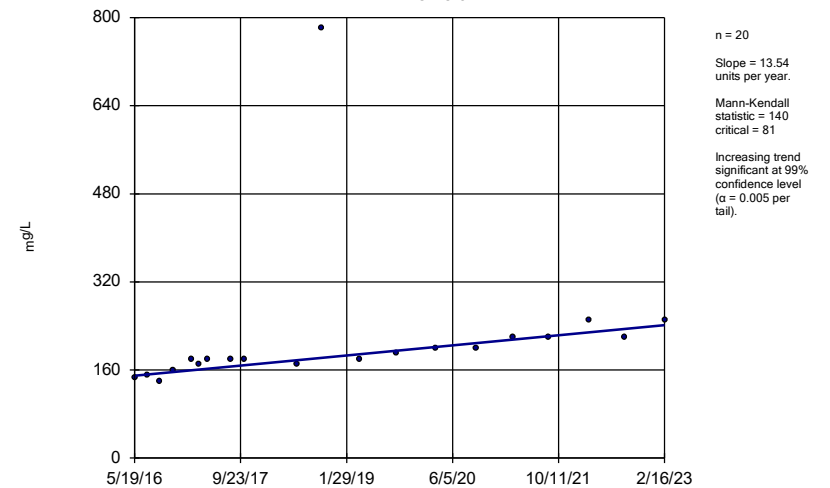
WGWC-25



Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

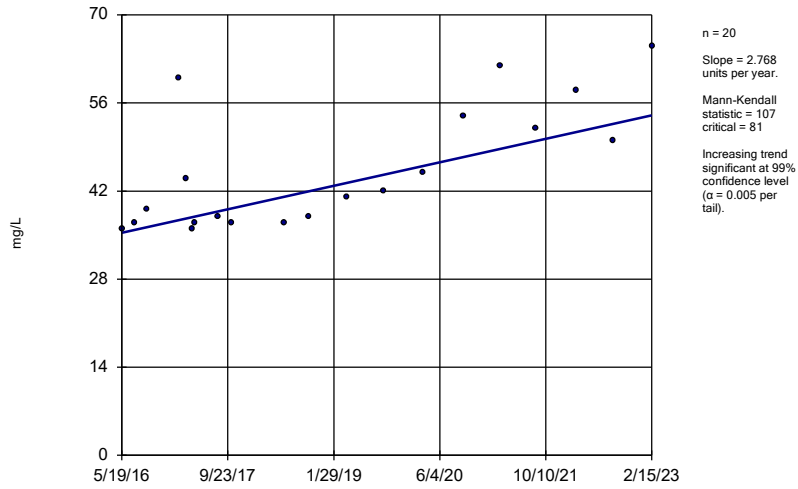
WGWC-8



Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-9

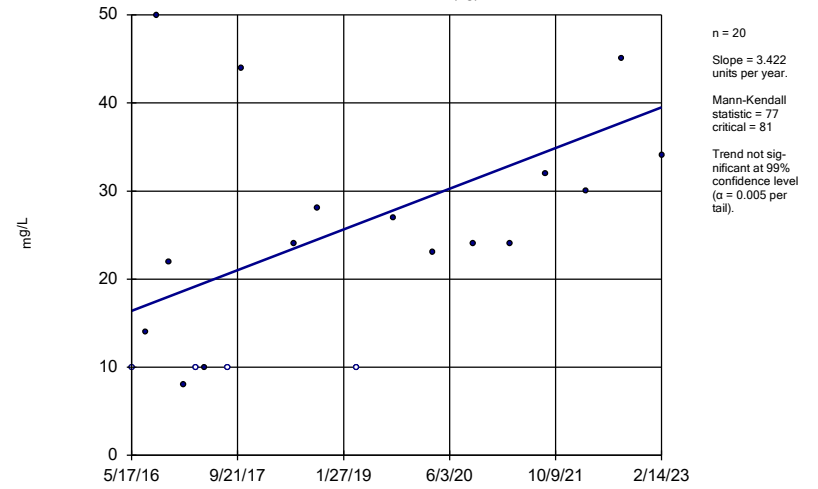


Constituent: Sulfate as SO4 Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

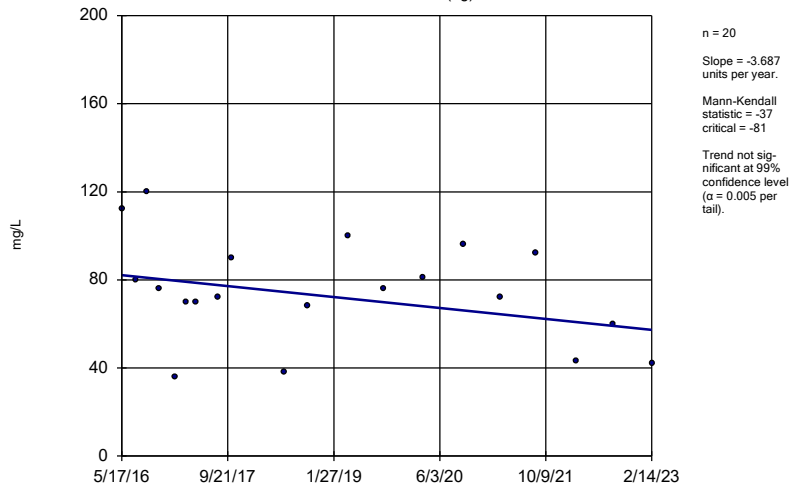
WGWA-1 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

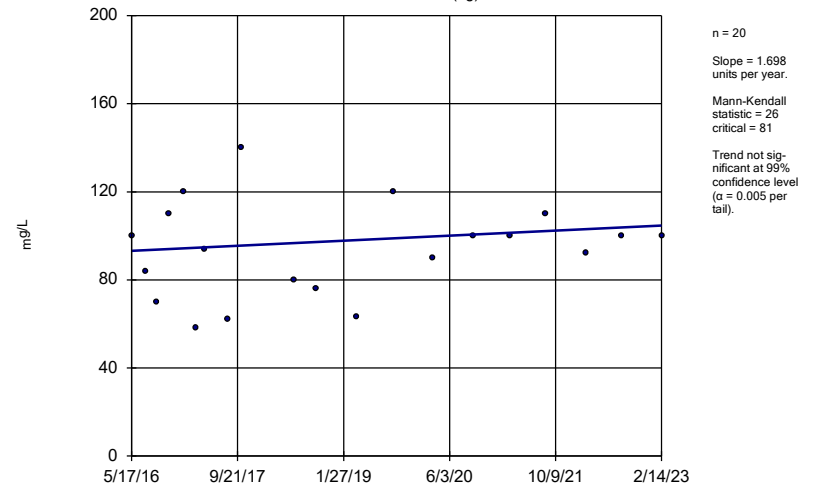
WGWA-18 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

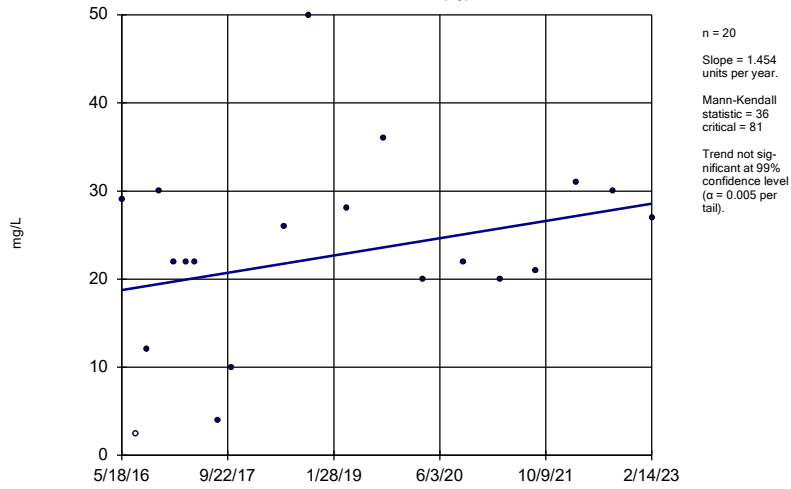
WGWA-2 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/20/2023 12:43 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

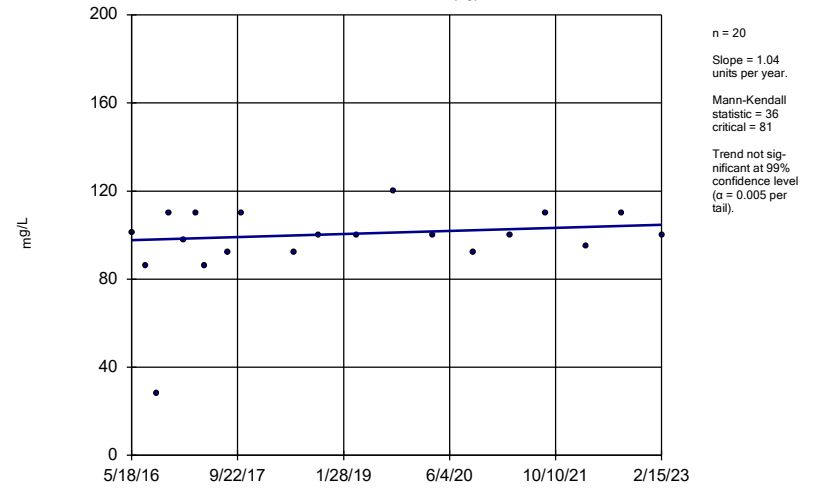
WGWA-3 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

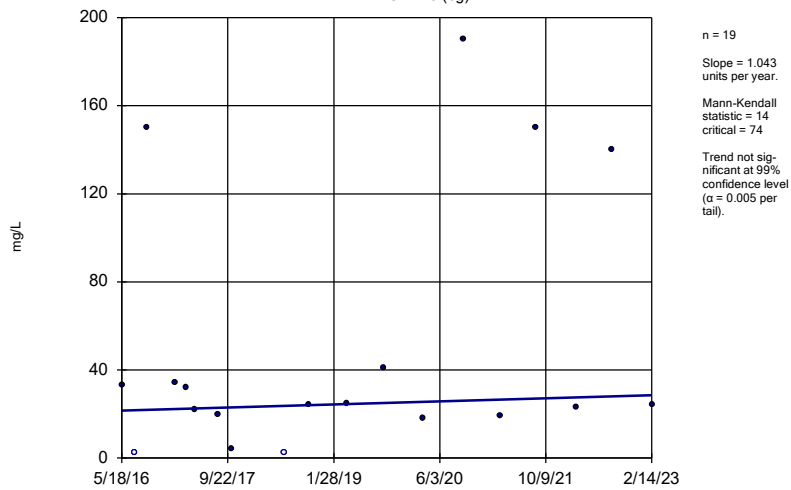
WGWA-4 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

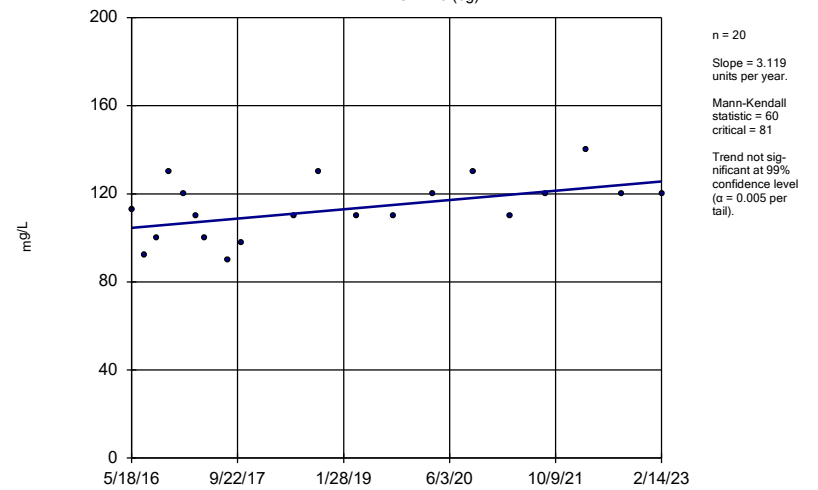
WGWA-5 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

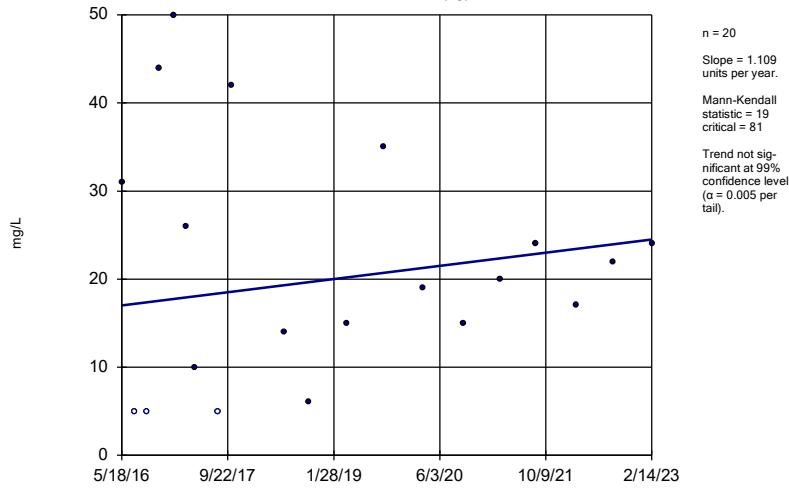
WGWA-6 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

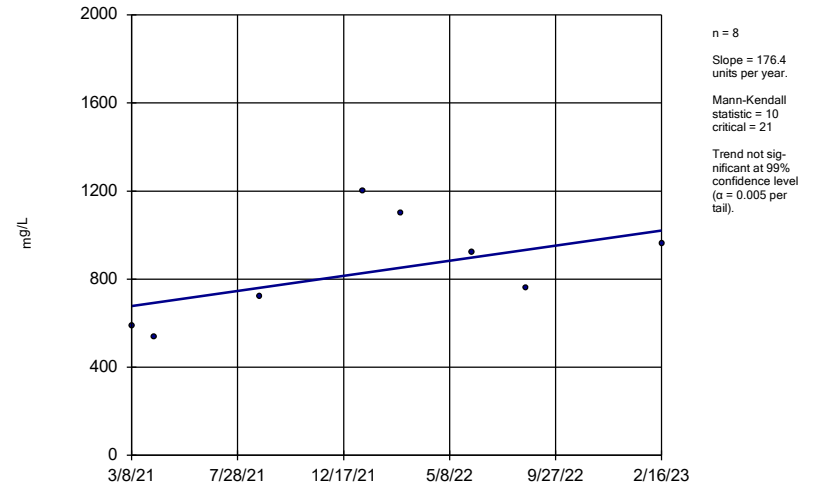
WGWA-7 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

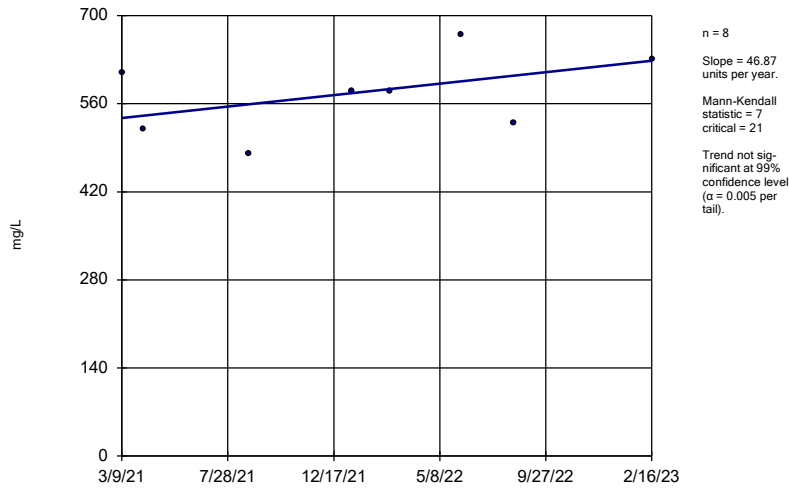
WGWC-20



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

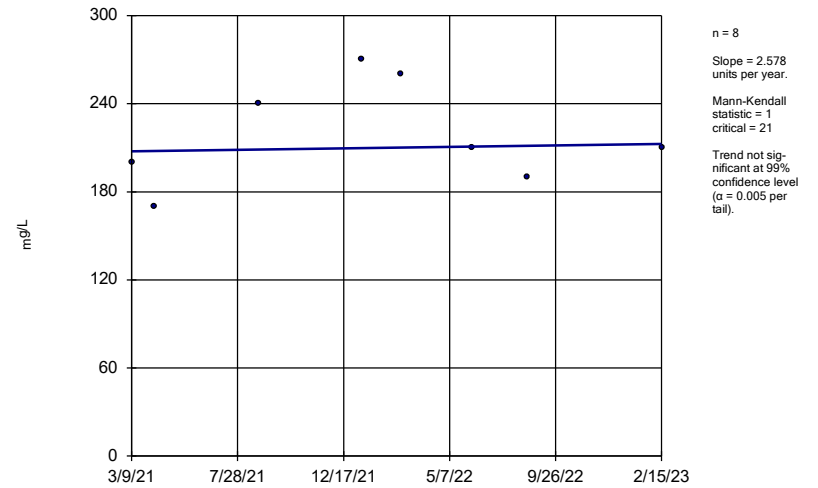
WGWC-21



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

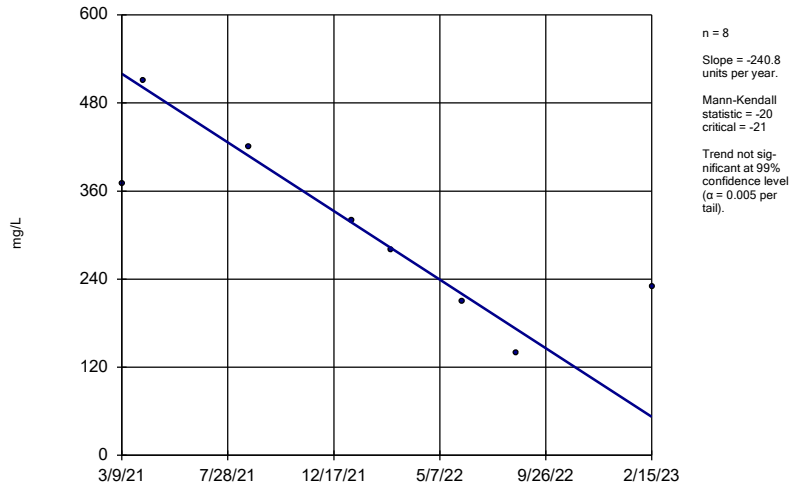
WGWC-22



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

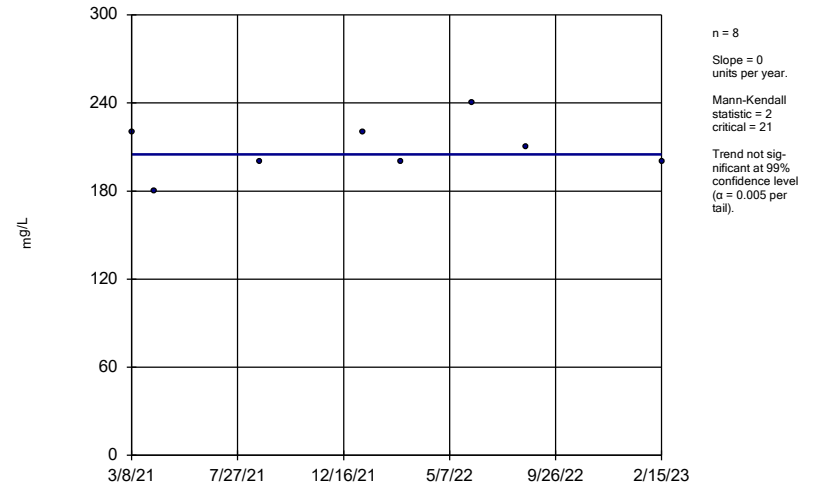
WGWC-24



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

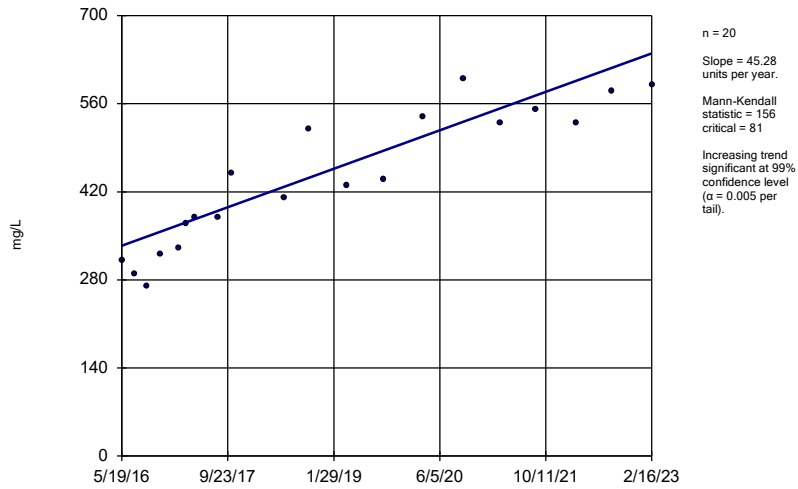
WGWC-25



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-8



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/20/2023 12:43 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE F.

Upper Tolerance Limit Summary Table

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/24/2023, 11:51 AM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg.N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0022	n/a	n/a	n/a	143	97.9	n/a	0.0006523	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0014	n/a	n/a	n/a	183	81.97	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.062	n/a	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	183	93.99	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	167	100	n/a	0.0001905	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0063	n/a	n/a	n/a	183	95.08	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.013	n/a	n/a	n/a	182	46.7	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	10.4	n/a	n/a	n/a	180	0	n/a	NaN	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.284	n/a	n/a	n/a	191	45.55	n/a	NaN	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	167	88.62	n/a	0.0001905	NP Inter(NDs)
Lithium (mg/L)	n/a	0.009	n/a	n/a	n/a	173	50.29	n/a	NaN	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	151	90.73	n/a	0.0004328	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	182	91.21	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	183	95.08	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	183	92.9	n/a	NaN	NP Inter(NDs)

FIGURE G.

WANSLEY AP GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background	GWPS
Antimony, Total (mg/L)	0.006		0.0022	0.006
Arsenic, Total (mg/L)	0.01		0.0014	0.01
Barium, Total (mg/L)	2		0.062	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0063	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.013	0.013
Combined Radium, Total (pCi/L)	5		10.4	10.4
Fluoride, Total (mg/L)	4		0.28	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.009	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

Highlighted cells indicate background is higher than established limit.

FIGURE H.

Confidence Intervals - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/25/2023, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	WGWC-20	0.01188	0.007483	0.004	Yes	6	0.009683	0.001602	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-24	0.01516	0.004344	0.004	Yes	6	0.00975	0.003935	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-24	0.133	0.02803	0.013	Yes	6	0.0805	0.0382	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.05576	0.04868	0.04	Yes	23	0.05222	0.006769	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	8	0.1238	0.01685	0	None	No	0.004	NP (normality)

Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/25/2023, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-11	0.002	0.00053	0.006	No	18	0.001918	0.0003465	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	18	0.002017	0.00007071	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-19	0.002	0.00058	0.006	No	18	0.001921	0.0003347	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-20	0.002	0.00066	0.006	No	6	0.001627	0.0005949	66.67	None	No	0.0155	NP (NDs)
Antimony (mg/L)	WGWC-21	0.002	0.00053	0.006	No	6	0.001307	0.0007638	50	None	No	0.0155	NP (normality)
Antimony (mg/L)	WGWC-22	0.00116	0.0005103	0.006	No	6	0.001223	0.0006377	33.33	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-23	0.002073	0.001049	0.006	No	6	0.00175	0.0004087	33.33	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-8	0.011	0.00064	0.006	No	18	0.002424	0.002164	88.89	Kaplan-Meier	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.0043	0.0011	0.006	No	18	0.00215	0.001699	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	23	0.0008883	0.0002391	78.26	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	23	0.0009357	0.0001702	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	23	0.0009291	0.0001886	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00039	0.01	No	23	0.0007817	0.0003213	47.83	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0014	0.00095	0.01	No	23	0.001211	0.0005498	69.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.00201	0.001152	0.01	No	23	0.001581	0.0008198	4.348	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0014	0.001	0.01	No	23	0.001137	0.0003124	56.52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-17	0.001	0.00075	0.01	No	23	0.0008609	0.0002015	56.52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-20	0.0007446	0.0002254	0.01	No	6	0.0006567	0.0003151	33.33	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-21	0.0007759	0.0002521	0.01	No	6	0.000595	0.0002752	16.67	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-22	0.001	0.00029	0.01	No	6	0.0007917	0.0003272	66.67	Kaplan-Meier	No	0.0155	NP (NDs)
Arsenic (mg/L)	WGWC-24	0.0033	0.00028	0.01	No	6	0.00162	0.00125	16.67	None	No	0.0155	NP (selected)
Arsenic (mg/L)	WGWC-8	0.001007	0.0006326	0.01	No	23	0.0009835	0.0002734	47.83	Kaplan-Meier	x^2	0.01	Param.
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	23	0.0009978	0.000193	86.96	None	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.04034	0.03431	2	No	23	0.03766	0.006423	0	None	ln(x)	0.01	Param.
Barium (mg/L)	WGWC-11	0.04039	0.03296	2	No	23	0.03691	0.007495	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-12	0.01902	0.01526	2	No	23	0.0168	0.003974	0	None	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05448	0.045	2	No	23	0.04974	0.009056	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.0433	0.03029	2	No	23	0.03752	0.01356	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-15	0.02514	0.021	2	No	23	0.02307	0.003964	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.05477	0.03889	2	No	23	0.04767	0.01549	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-17	0.018	0.011	2	No	23	0.01439	0.004034	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.01	0.0012	2	No	23	0.004584	0.004188	34.78	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-20	0.01	0.00091	2	No	6	0.008485	0.003711	83.33	None	No	0.0155	NP (NDs)
Barium (mg/L)	WGWC-21	0.009115	0.004252	2	No	6	0.006683	0.00177	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-22	0.04101	0.02232	2	No	6	0.03167	0.006802	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-23	0.009861	0.005873	2	No	6	0.007867	0.001451	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-24	0.04289	0.02644	2	No	6	0.03467	0.005989	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-25	0.41	0.3066	2	No	6	0.3583	0.03764	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-8	0.01	0.0011	2	No	23	0.00494	0.004209	39.13	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.01	0.00092	2	No	23	0.005097	0.004423	43.48	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00031	0.004	No	23	0.001817	0.001056	69.57	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	23	0.002401	0.0004754	95.65	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-20	0.01188	0.007483	0.004	Yes	6	0.009683	0.001602	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-21	0.0025	0.00022	0.004	No	6	0.00212	0.0009308	83.33	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	WGWC-22	0.0006834	0.00052	0.004	No	6	0.0006017	0.00005947	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-23	0.00126	0.0007869	0.004	No	6	0.001023	0.0001721	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-24	0.01516	0.004344	0.004	Yes	6	0.00975	0.003935	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-25	0.0025	0.0002	0.004	No	6	0.0006267	0.0009185	16.67	None	No	0.0155	NP (normality)
Beryllium (mg/L)	WGWC-8	0.002166	0.001647	0.004	No	23	0.001907	0.000497	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	23	0.001212	0.001057	39.13	None	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No	21	0.002391	0.0004997	95.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.0005633	0.0002785	0.005	No	21	0.001154	0.0009904	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Cadmium (mg/L)	WGWC-20	0.0025	0.00026	0.005	No	6	0.001805	0.001081	66.67	Kaplan-Meier	No	0.0155	NP (NDs)
Cadmium (mg/L)	WGWC-22	0.0025	0.00009	0.005	No	6	0.001353	0.001258	50	None	No	0.0155	NP (normality)
Cadmium (mg/L)	WGWC-24	0.00063	0.0001467	0.005	No	6	0.0003883	0.0001759	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/25/2023, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	WGWC-25	0.0025	0.0001	0.005	No	6	0.001703	0.001234	66.67	None	No	0.0155	NP (NDs)
Cadmium (mg/L)	WGWC-8	0.0025	0.00065	0.005	No	21	0.002412	0.0004037	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-10	0.002223	0.001542	0.1	No	23	0.001883	0.0006506	13.04	None	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0017	0.1	No	23	0.001917	0.0002516	82.61	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	23	0.001974	0.00007518	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	23	0.001987	0.00006255	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	23	0.001978	0.0001043	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-21	0.002	0.0015	0.1	No	6	0.001917	0.0002041	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	23	0.002022	0.0001043	95.65	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001414	0.0007674	0.013	No	23	0.001152	0.000715	8.696	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	23	0.00158	0.0009506	39.13	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.000982	0.0004403	0.013	No	23	0.0009204	0.001025	4.348	None	ln(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.0008	0.013	No	23	0.002052	0.0008762	78.26	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-14A	0.009435	0.004799	0.013	No	23	0.007117	0.004432	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	23	0.002398	0.00049	95.65	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.005748	0.0008712	0.013	No	23	0.006188	0.006027	21.74	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-17	0.00146	0.0007439	0.013	No	23	0.001102	0.0006843	13.04	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	23	0.001277	0.001101	43.48	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-20	0.0025	0.00037	0.013	No	6	0.001805	0.001077	66.67	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	WGWC-21	0.0025	0.00032	0.013	No	6	0.0008417	0.0008493	16.67	None	No	0.0155	NP (normality)
Cobalt (mg/L)	WGWC-22	0.0025	0.00025	0.013	No	6	0.001412	0.001193	50	None	No	0.0155	NP (normality)
Cobalt (mg/L)	WGWC-23	0.0025	0.00016	0.013	No	6	0.001722	0.001206	66.67	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	WGWC-24	0.133	0.02803	0.013	Yes	6	0.0805	0.0382	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-25	0.005181	0.003719	0.013	No	6	0.00445	0.000532	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-8	0.0025	0.00066	0.013	No	23	0.001737	0.001033	43.48	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	23	0.002423	0.0003691	95.65	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4457	0.2064	10.4	No	23	0.3261	0.2288	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6043	0.2196	10.4	No	23	0.4119	0.3678	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.5629	0.2068	10.4	No	23	0.3848	0.3404	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.757	0.469	10.4	No	23	0.613	0.2754	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8308	0.5537	10.4	No	23	0.7097	0.2938	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6051	0.2991	10.4	No	23	0.4854	0.3344	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.597	0.7565	10.4	No	23	1.274	0.8774	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5286	0.16	10.4	No	23	0.3443	0.3524	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.5409	0.2084	10.4	No	23	0.3747	0.3179	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-20	1.457	0.587	10.4	No	6	1.022	0.3167	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-21	2.27	0.3891	10.4	No	6	1.329	0.6844	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-22	7.799	2.781	10.4	No	6	5.29	1.826	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-23	1.399	0.1906	10.4	No	6	0.7948	0.4399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-24	1.44	0.6443	10.4	No	6	1.02	0.3145	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-25	1.078	0.4824	10.4	No	6	0.78	0.2166	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	2.213	1.466	10.4	No	23	1.84	0.7134	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4101	0.1637	10.4	No	23	0.2869	0.2355	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-10	0.1674	0.123	4	No	24	0.1452	0.04353	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-11	0.1	0.045	4	No	24	0.07996	0.03544	54.17	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-12	0.09739	0.07226	4	No	24	0.109	0.047	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-13	0.2778	0.1992	4	No	24	0.2385	0.07692	4.167	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-14A	0.1	0.048	4	No	24	0.08133	0.02808	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-15	0.8568	0.7665	4	No	24	0.8116	0.08846	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-16	0.15	0.067	4	No	24	0.2208	0.2949	8.333	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-17	0.1266	0.08023	4	No	24	0.1034	0.04544	4.167	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-19	0.3721	0.3246	4	No	24	0.3483	0.04659	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-20	2.212	1.717	4	No	8	1.963	0.2446	0	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	WGWC-21	1.961	1.689	4	No	8	1.825	0.1282	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-22	1.4	0.31	4	No	8	0.6088	0.4094	0	None	No	0.004	NP (normality)

Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/25/2023, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	WGWC-23	0.0861	0.03397	4	No	8	0.05938	0.02524	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-24	1.151	0.4268	4	No	8	0.7888	0.3415	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-25	0.1	0.028	4	No	8	0.06763	0.03512	50	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	WGWC-8	0.3233	0.1962	4	No	24	0.2598	0.1245	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-9	1.445	1.133	4	No	24	1.289	0.306	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00023	0.015	No	21	0.000641	0.0003898	52.38	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	21	0.0008838	0.0002517	80.95	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-12	0.001	0.00033	0.015	No	21	0.0009681	0.0001462	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00045	0.015	No	21	0.0006976	0.0003047	38.1	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00031	0.015	No	21	0.0007319	0.0003609	61.9	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.015	No	21	0.0009667	0.0001528	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	21	0.0009176	0.0002602	90.48	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	21	0.00093	0.000222	90.48	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-19	0.001	0.0003	0.015	No	21	0.0009667	0.0001528	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-22	0.001	0.00022	0.015	No	6	0.0004017	0.0003009	16.67	None	No	0.0155	NP (normality)
Lead (mg/L)	WGWC-23	0.0046	0.001	0.015	No	6	0.0016	0.00147	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	WGWC-24	0.001116	0.0002609	0.015	No	6	0.0006883	0.0003112	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-8	0.001	0.00017	0.015	No	21	0.0007119	0.0003865	61.9	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	21	0.000959	0.0001877	95.24	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01296	0.006432	0.04	No	23	0.0104	0.007152	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	23	0.004357	0.001439	82.61	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.0077	0.0062	0.04	No	23	0.007465	0.004191	4.348	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-13	0.005	0.0037	0.04	No	23	0.00427	0.00121	69.57	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.04	No	23	0.004004	0.00138	60.87	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.007134	0.005301	0.04	No	23	0.006217	0.001752	8.696	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01064	0.006205	0.04	No	23	0.008796	0.00484	4.348	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-17	0.0058	0.0045	0.04	No	23	0.005909	0.004269	4.348	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-19	0.05576	0.04868	0.04	Yes	23	0.05222	0.006769	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	8	0.1238	0.01685	0	None	No	0.004	NP (normality)
Lithium (mg/L)	WGWC-21	0.0547	0.0278	0.04	No	8	0.04125	0.01269	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-22	0.011	0.0081	0.04	No	8	0.01005	0.001139	0	None	No	0.004	NP (normality)
Lithium (mg/L)	WGWC-23	0.005	0.0015	0.04	No	8	0.003775	0.001696	62.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	WGWC-24	0.008791	0.004759	0.04	No	8	0.006775	0.001902	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-25	0.004552	0.003423	0.04	No	8	0.003988	0.000533	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.017	0.013	0.04	No	23	0.01646	0.009504	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03723	0.03212	0.04	No	23	0.03467	0.004879	0	None	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.00013	0.002	No	19	0.0001779	0.000045	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No	19	0.0001891	0.00003312	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00018	0.002	No	19	0.0001831	0.00003787	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No	19	0.0001876	0.00003721	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No	19	0.0001963	0.00001606	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000093	0.002	No	19	0.0001755	0.00004884	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No	19	0.0001884	0.00003404	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No	19	0.0001934	0.00002891	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No	19	0.0001893	0.00003299	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-20	0.00033	0.0002	0.002	No	6	0.0002217	0.00005307	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	WGWC-21	0.0002	0.0002	0.002	No	6	0.0002	2.1e-12	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	WGWC-22	0.0002	0.00018	0.002	No	6	0.0001967	0.000008165	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	WGWC-23	0.00022	0.0002	0.002	No	6	0.0002033	0.000008165	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	WGWC-24	0.00026	0.0002	0.002	No	6	0.00021	0.00002449	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	WGWC-25	0.0019	0.0002	0.002	No	6	0.0004833	0.000694	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No	19	0.0001852	0.00003628	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No	19	0.0001963	0.00001606	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	23	0.01378	0.004057	91.3	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No	23	0.01382	0.003919	91.3	None	No	0.01	NP (NDs)

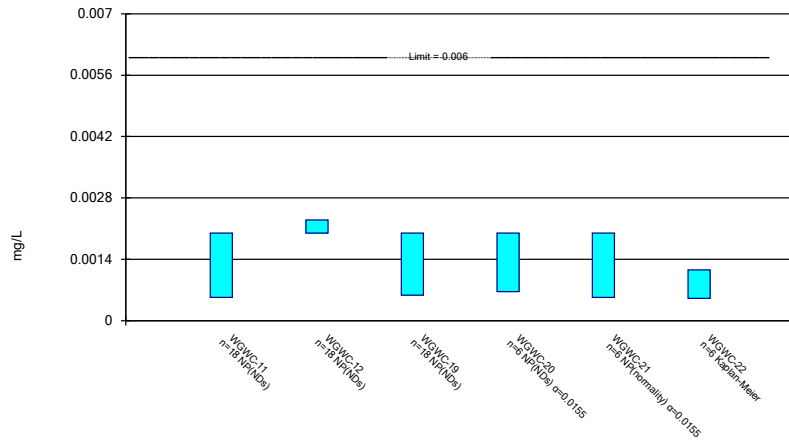
Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/25/2023, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	WGWC-12	0.015	0.0046	0.1	No	23	0.01145	0.00615	73.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.003006	0.001529	0.1	No	23	0.00268	0.0021	13.04	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	23	0.01439	0.002919	95.65	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.005821	0.003115	0.1	No	23	0.004852	0.003318	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.004512	0.00241	0.1	No	23	0.003922	0.002443	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.1	No	23	0.005452	0.006459	30.43	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-20	0.015	0.00062	0.1	No	6	0.01023	0.007382	66.67	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	WGWC-21	0.04387	0.03113	0.1	No	6	0.0375	0.004637	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-22	0.015	0.00084	0.1	No	6	0.01264	0.005781	83.33	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	WGWC-9	0.005541	0.003362	0.1	No	23	0.004923	0.003299	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	23	0.004796	0.0009779	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	23	0.004804	0.0009404	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	23	0.004874	0.0006047	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	23	0.004796	0.00098	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	23	0.004804	0.0009383	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.009844	0.004838	0.05	No	23	0.007341	0.004786	4.348	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	23	0.004798	0.0009675	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-20	0.005	0.0014	0.05	No	6	0.0023	0.001409	16.67	None	No	0.0155	NP (normality)
Selenium (mg/L)	WGWC-22	0.007995	0.003505	0.05	No	6	0.00575	0.001634	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-23	0.002646	0.001388	0.05	No	6	0.002017	0.0004579	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-24	0.005	0.00077	0.05	No	6	0.004295	0.001727	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	WGWC-8	0.0038	0.0032	0.05	No	23	0.00369	0.001026	0	None	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-9	0.002835	0.00225	0.05	No	23	0.002543	0.0005595	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	23	0.0009602	0.0001908	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	23	0.0009635	0.0001752	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00016	0.002	No	23	0.0005987	0.0004294	52.17	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-16	0.001	0.00017	0.002	No	23	0.0005678	0.0004244	47.83	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	23	0.0009643	0.000171	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-22	0.001	0.00047	0.002	No	6	0.0009117	0.0002164	83.33	None	No	0.0155	NP (NDs)
Thallium (mg/L)	WGWC-24	0.0007372	0.0003328	0.002	No	6	0.000535	0.0001472	0	None	No	0.01	Param.

Parametric and Non-Parametric (NP) Confidence Interval

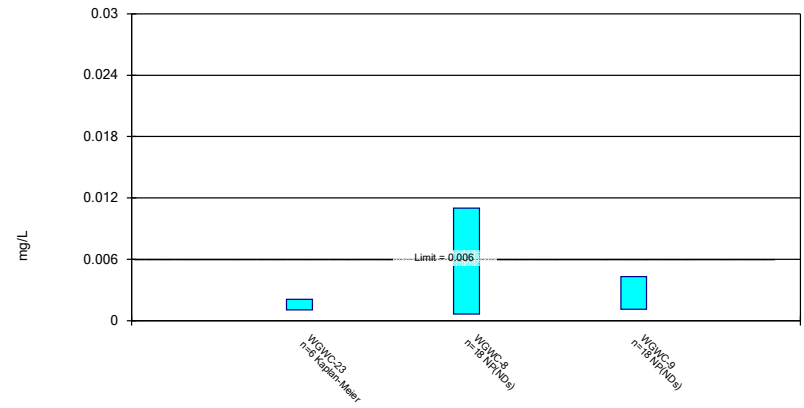
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

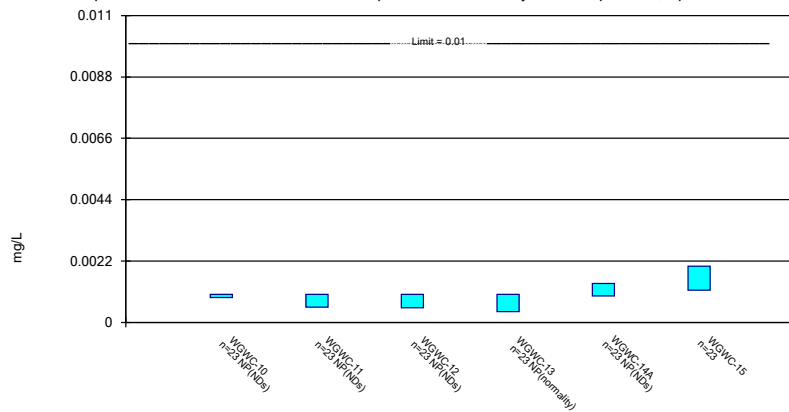
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Constituent: Antimony Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

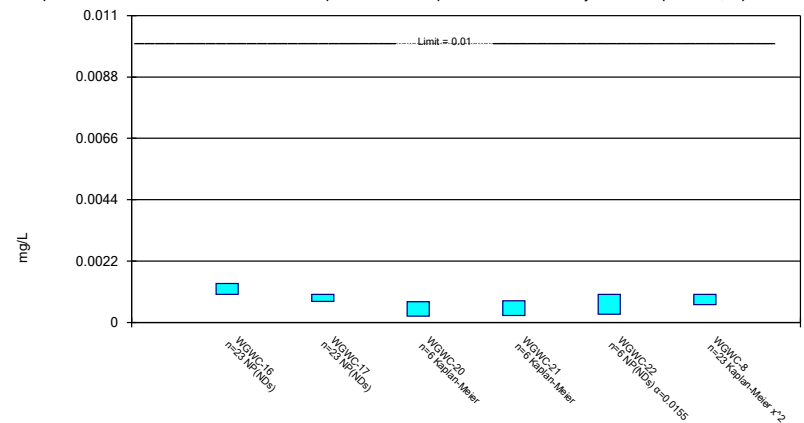
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Constituent: Arsenic Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

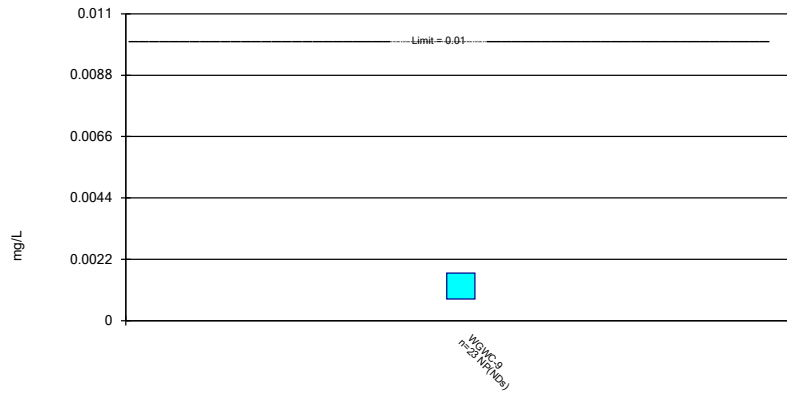
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Constituent: Arsenic Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

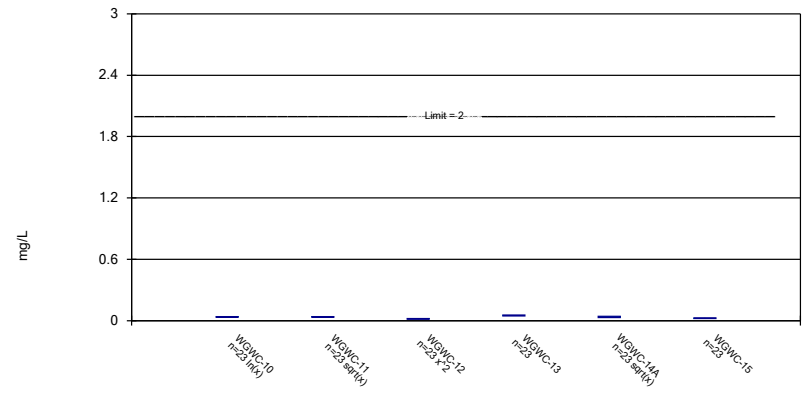
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Constituent: Arsenic Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

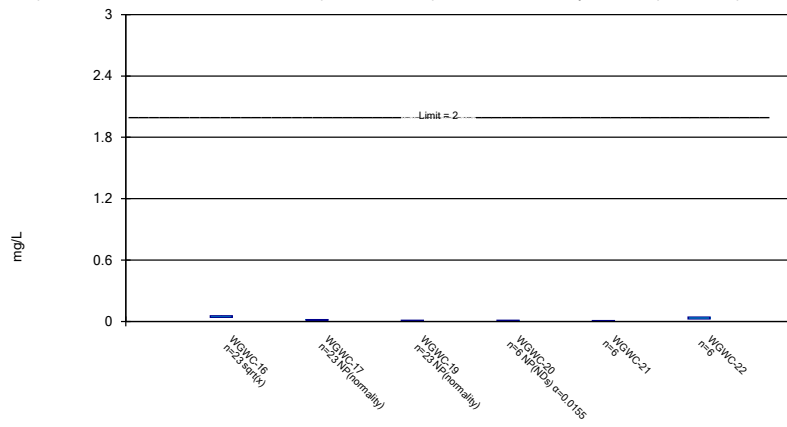
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Constituent: Barium Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

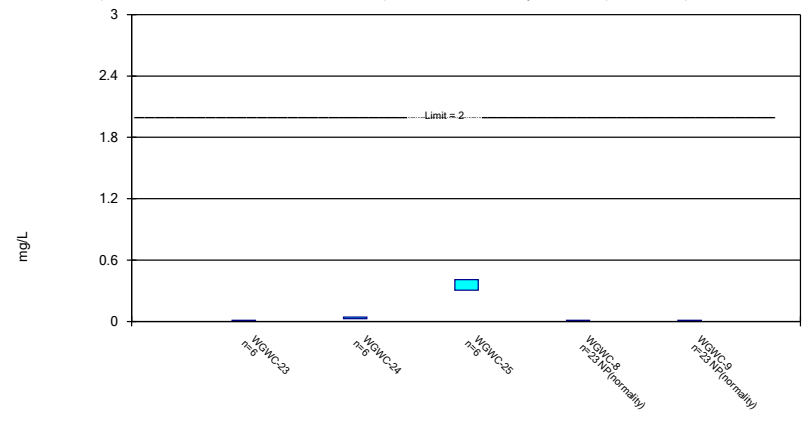
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

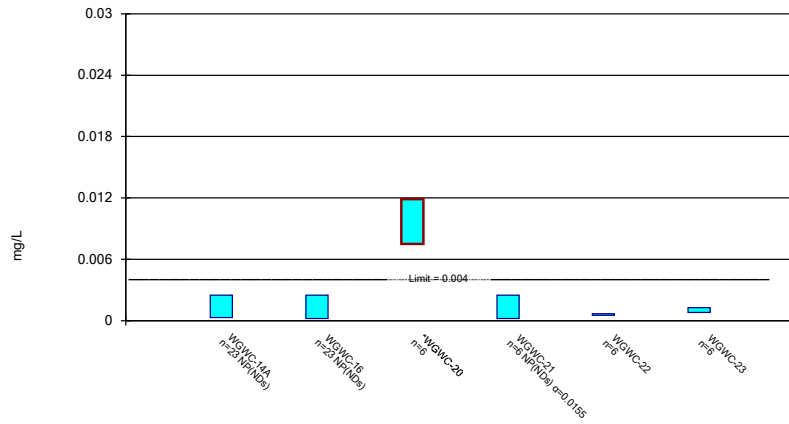
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

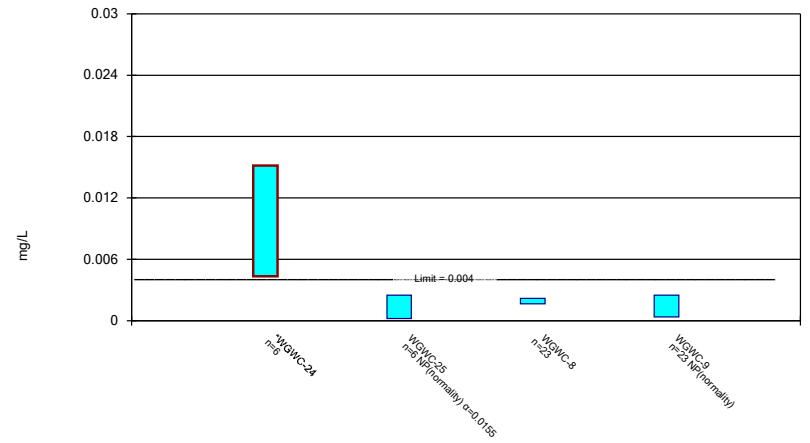
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

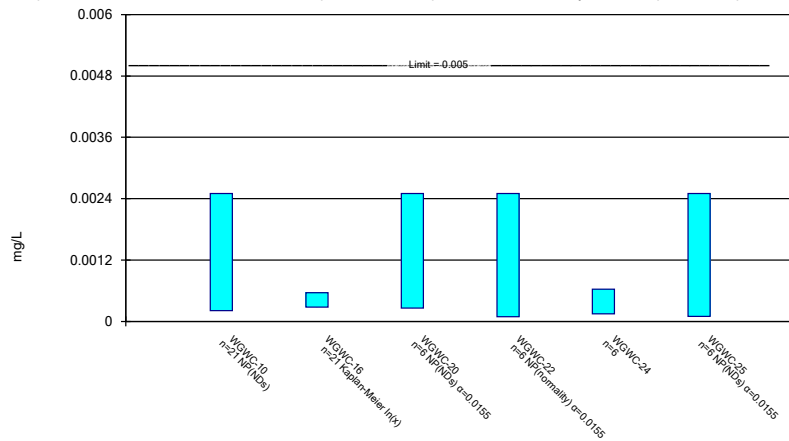
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

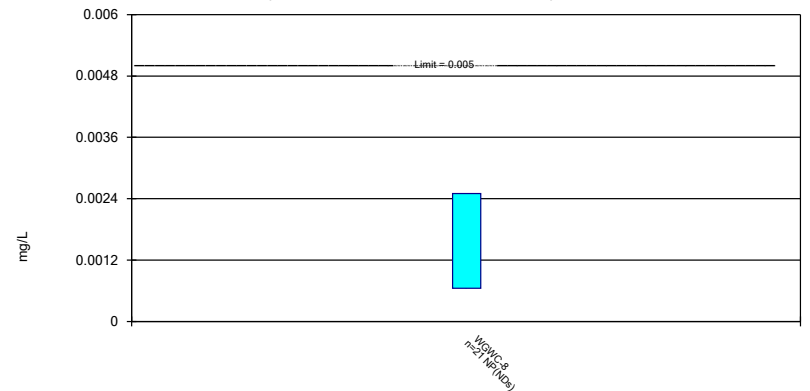
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

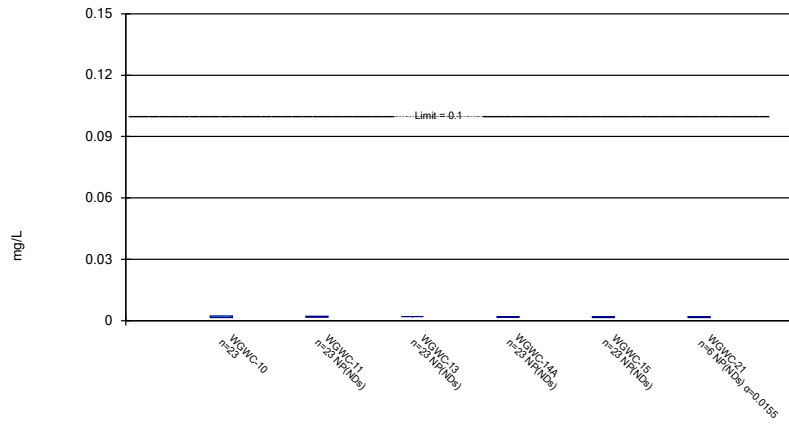
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

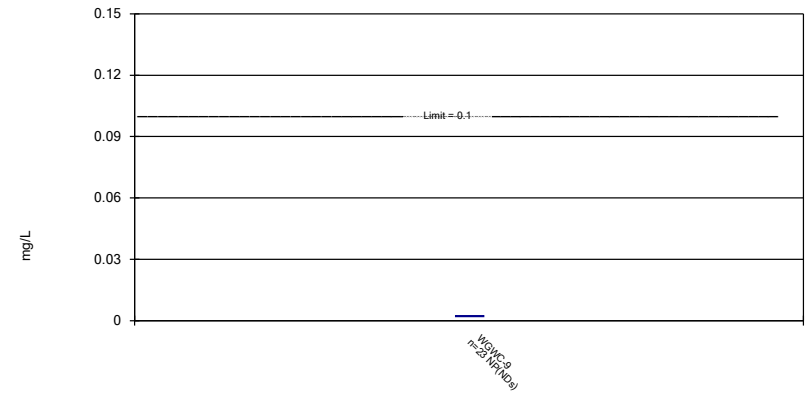
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

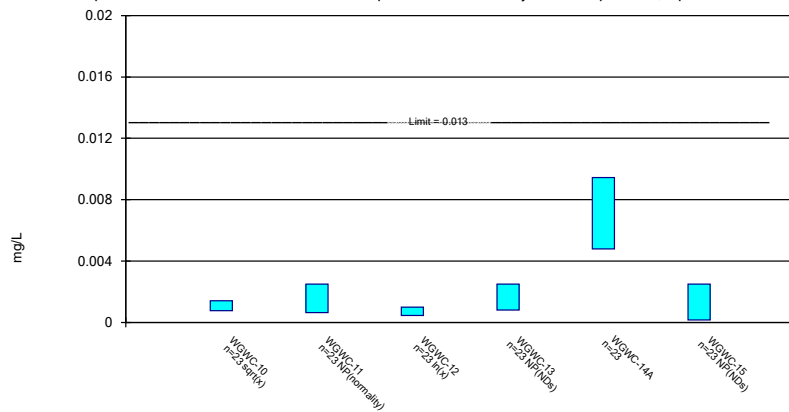
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

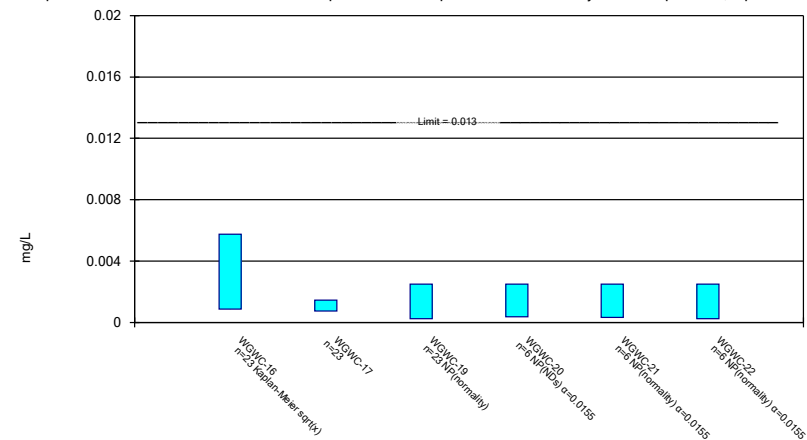
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

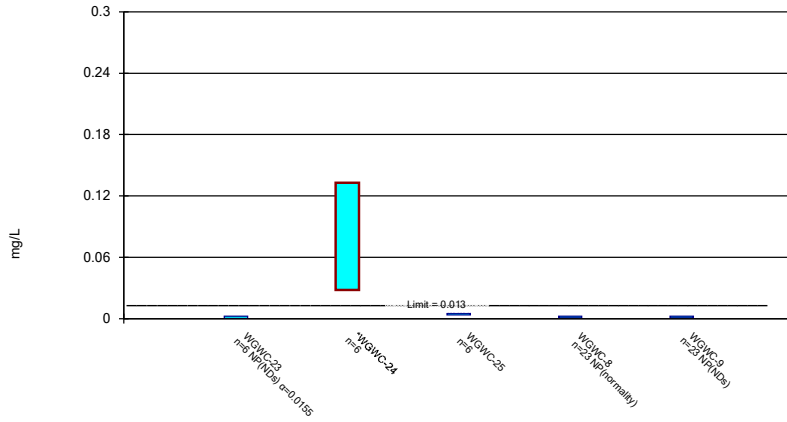
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

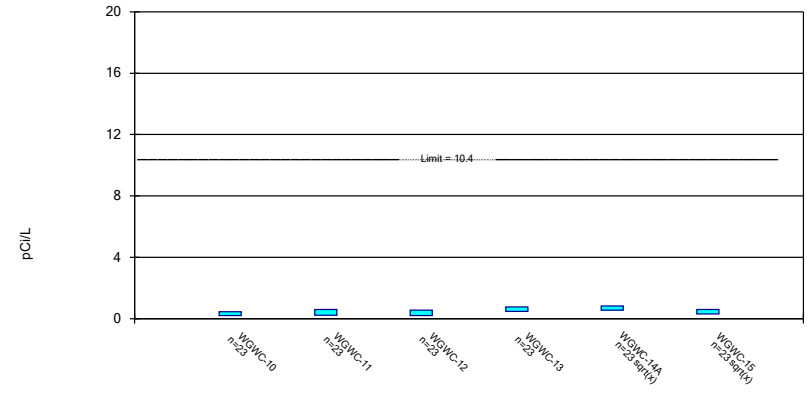
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

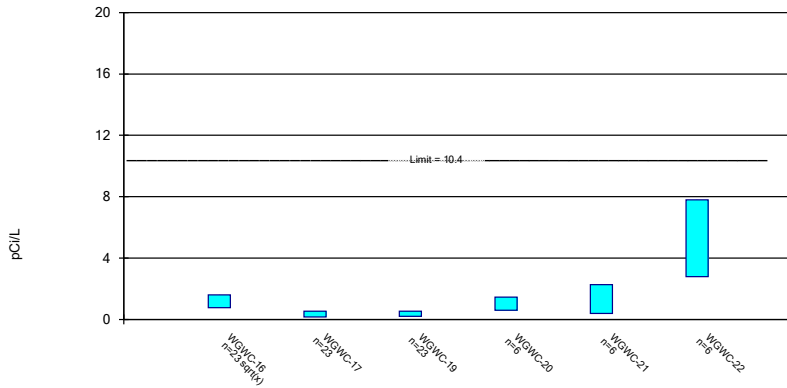
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

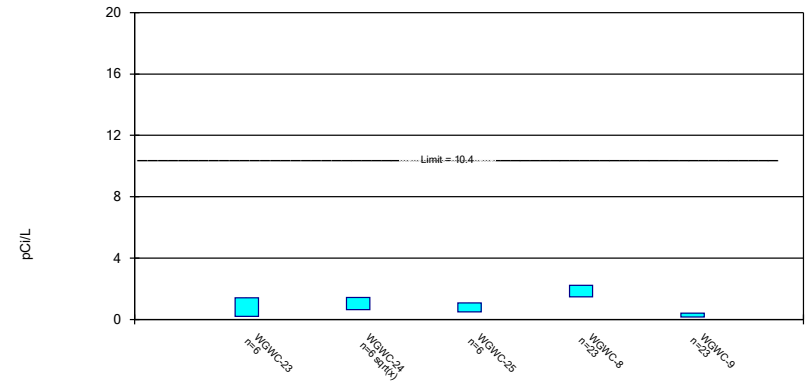
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

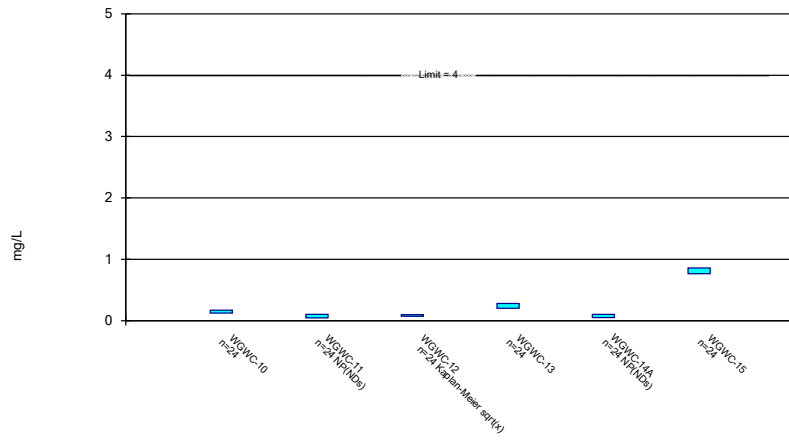
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

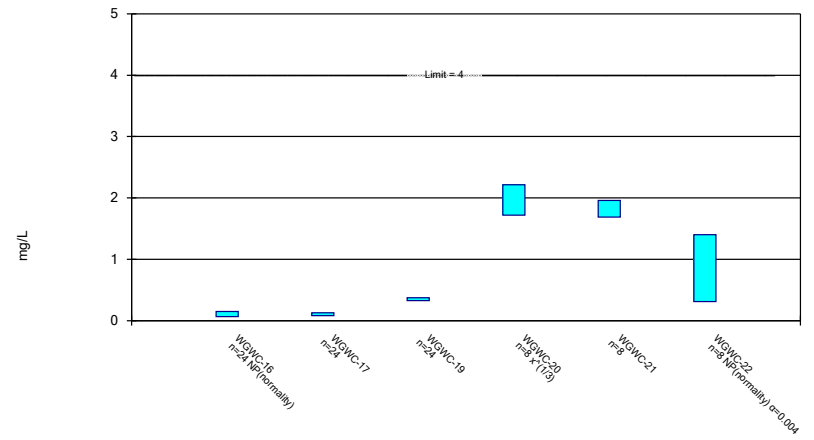
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

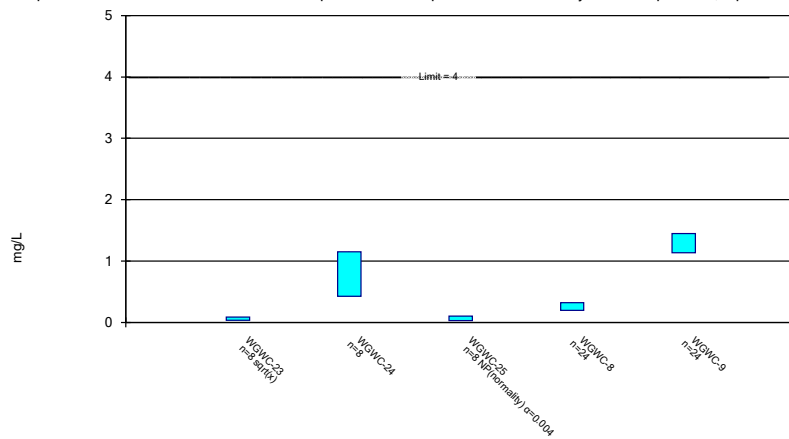
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

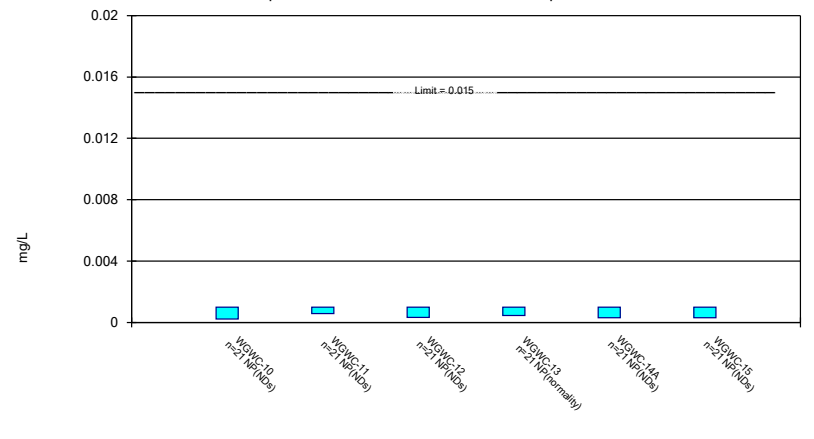
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

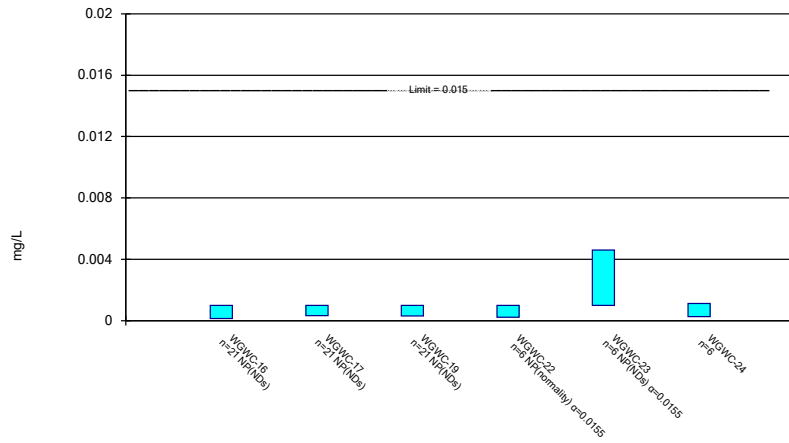
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

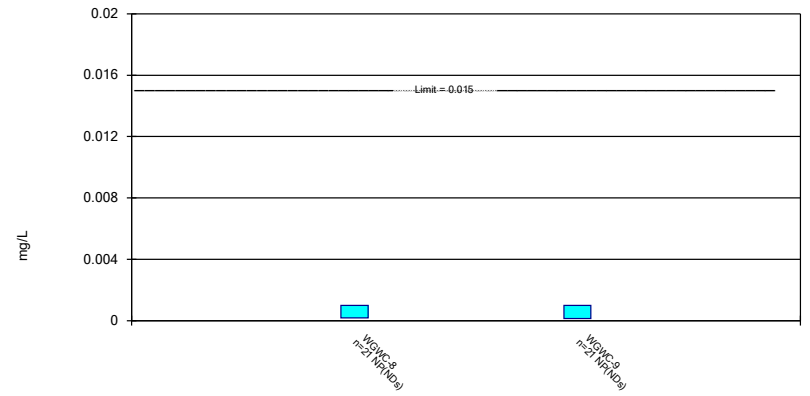
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

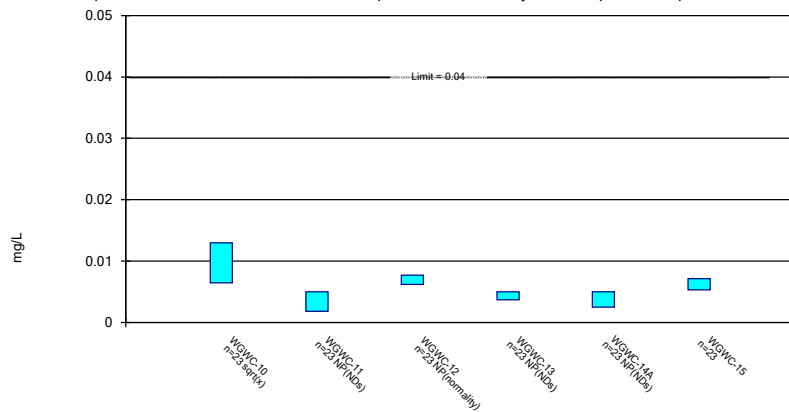
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

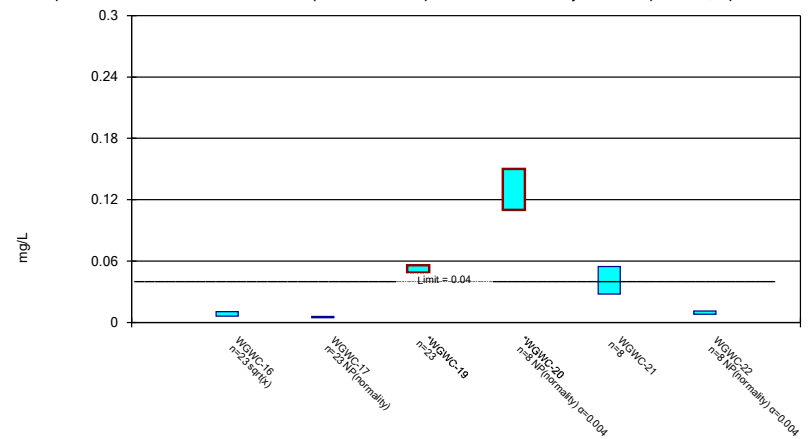
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

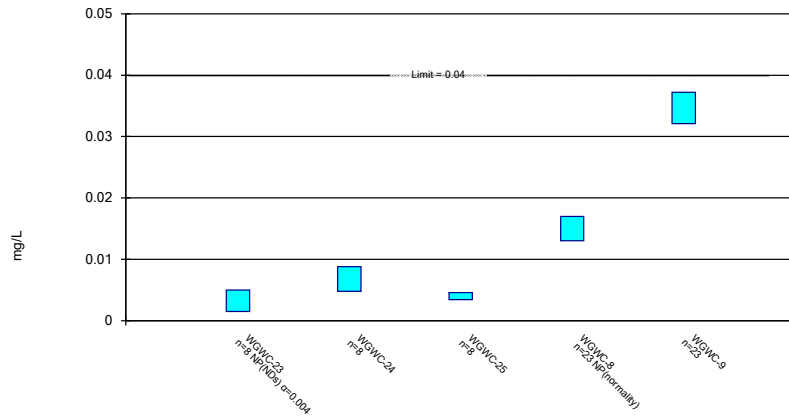
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

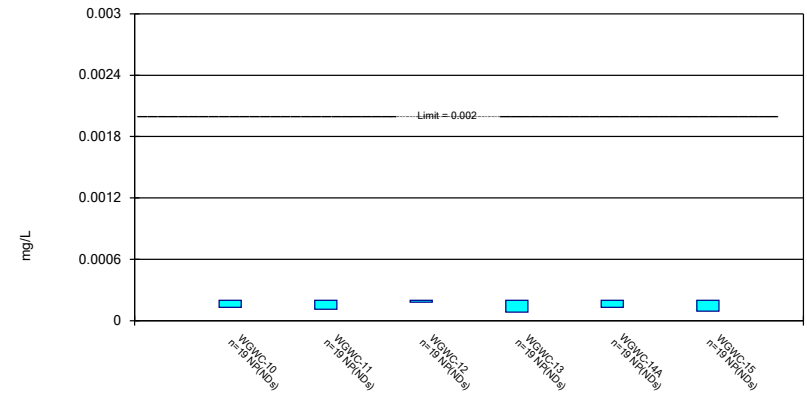
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

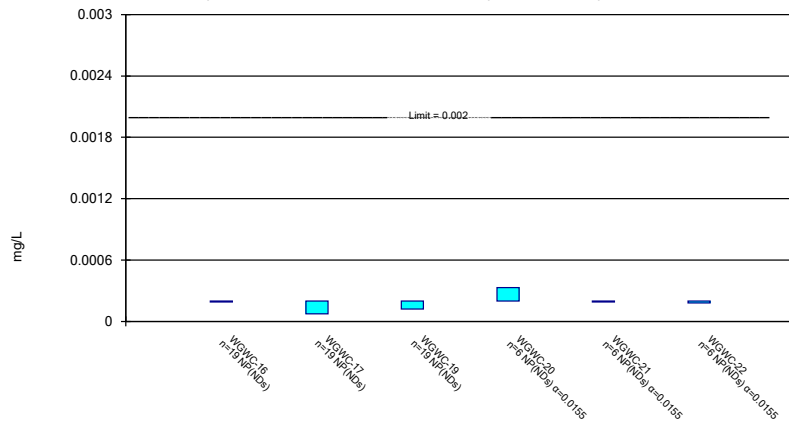
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

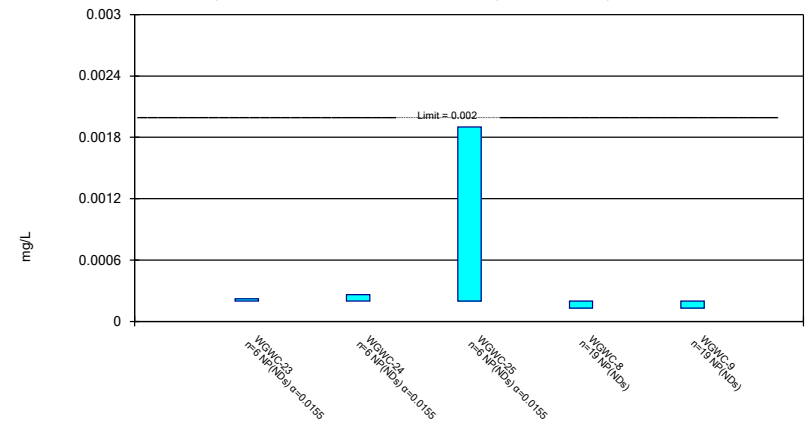
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

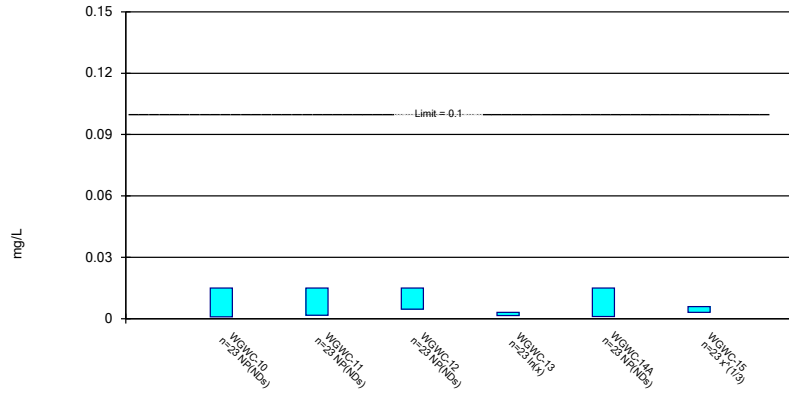
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

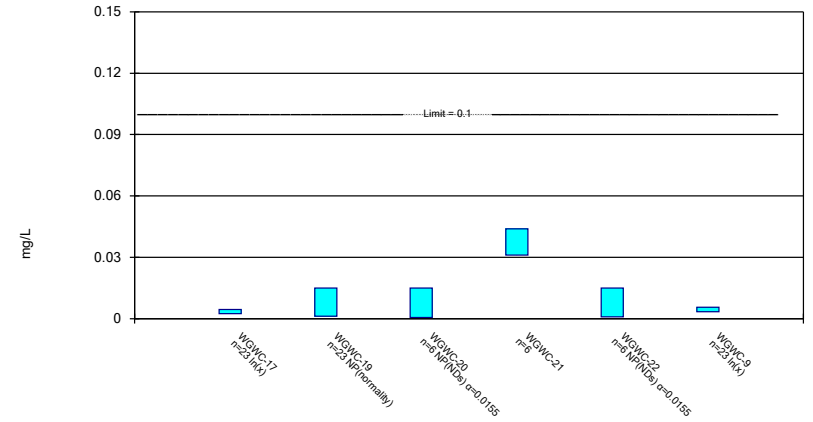
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

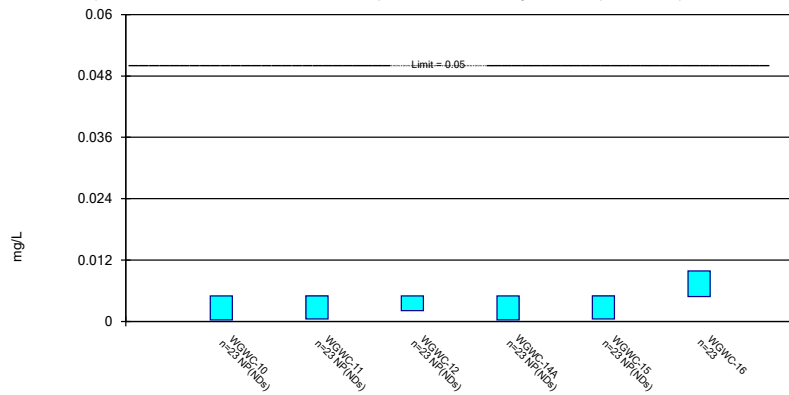
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

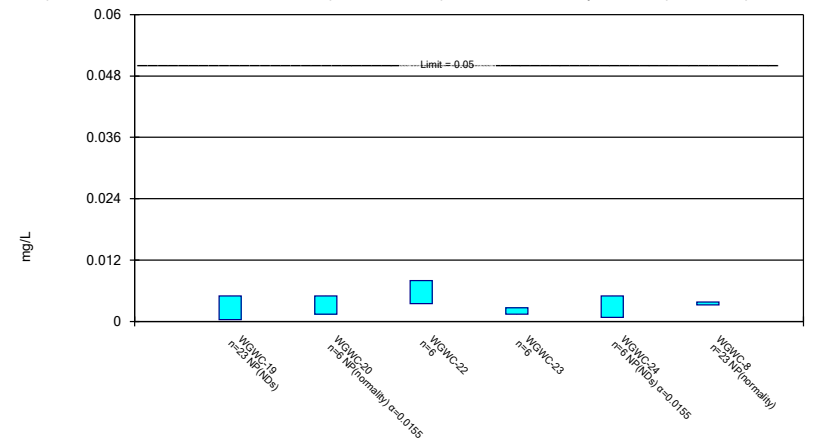
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

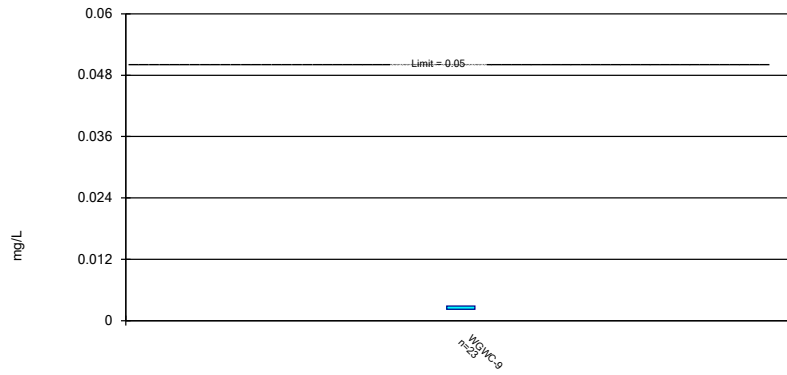
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

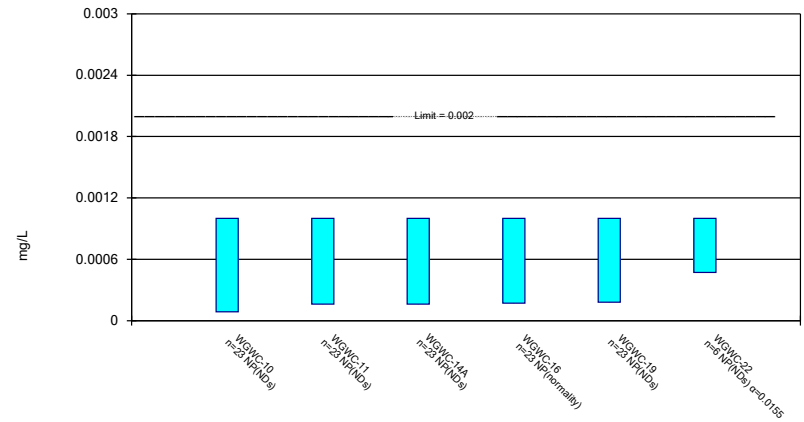
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/25/2023 10:08 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

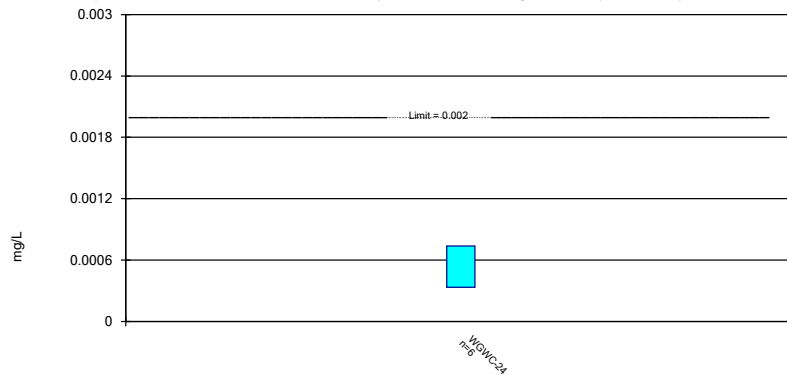
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Thallium Analysis Run 4/25/2023 10:09 AM View: Confidence Intervals
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: Thallium Analysis Run 4/25/2023 10:09 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-11	WGWC-12	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/19/2016	<0.002	<0.002				
7/20/2016	<0.002	<0.002				
9/14/2016	<0.002	<0.002				
11/11/2016	<0.002	<0.002	<0.002			
1/27/2017	<0.002	<0.002				
2/6/2017			<0.002			
3/15/2017	<0.002	<0.002	<0.002			
4/11/2017			<0.002			
4/26/2017	<0.002	<0.002	<0.002			
6/7/2017			<0.002			
7/11/2017			<0.002			
8/10/2017	<0.002	0.0023 (J)	<0.002			
3/29/2018	<0.002	<0.002	<0.002			
2/27/2019	<0.002	<0.002				
2/28/2019			<0.002			
2/5/2020	<0.002	<0.002				
2/7/2020			<0.002			
3/18/2020	<0.002	<0.002				
5/4/2020			<0.002			
2/3/2021	<0.002	<0.002	<0.002			
3/11/2021			<0.002			
3/12/2021	<0.002	<0.002				
8/25/2021	<0.002	<0.002				
8/26/2021			<0.002	<0.002	0.00076 (J)	<0.002
1/11/2022					<0.002	0.00078 (J)
1/12/2022				0.00066 (J)		
3/3/2022	<0.002		<0.002		0.00053 (J)	
3/4/2022		<0.002		0.0011 (J)		0.00082 (J)
6/6/2022					<0.002	
6/7/2022				<0.002		0.00054 (J)
8/16/2022	0.00053 (J)				0.00055 (J)	
8/17/2022			0.00058 (J)			
8/18/2022		<0.002		<0.002		
8/19/2022						<0.002
2/15/2023						0.0012 (J)
2/16/2023	<0.002	<0.002	<0.002	<0.002	<0.002	
Mean	0.001918	0.002017	0.001921	0.001627	0.001307	0.001223
Std. Dev.	0.0003465	7.071E-05	0.0003347	0.0005949	0.0007638	0.0006377
Upper Lim.	0.002	0.0023	0.002	0.002	0.002	0.00116
Lower Lim.	0.00053	0.002	0.00058	0.00066	0.00053	0.0005103

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-8	WGWC-9
5/19/2016		<0.002	<0.002
7/20/2016		<0.002	<0.002
9/14/2016			<0.002
9/15/2016		<0.002	
11/14/2016		<0.002	
2/6/2017		<0.002	
2/9/2017			<0.002
3/15/2017		<0.002	0.0011 (J)
4/11/2017			<0.002
4/26/2017		<0.002	<0.002
8/10/2017		<0.002	<0.002
3/29/2018		<0.002	<0.002
2/27/2019		<0.002	
2/28/2019			<0.002
2/5/2020			<0.002
2/7/2020		<0.002	
3/19/2020		<0.002	0.00041 (J)
2/3/2021		<0.002	
2/4/2021			0.00041 (J)
3/11/2021		<0.002	
3/12/2021			<0.002
8/26/2021	<0.002	<0.002	<0.002
1/11/2022	0.0012 (J)		
3/3/2022		<0.002	0.008
3/4/2022	0.0018 (J)		
6/6/2022	0.0013 (J)		
8/16/2022		0.011	
8/17/2022	<0.002		0.0043
2/15/2023	0.0022		0.00048 (J)
2/16/2023		0.00064 (J)	
Mean	0.00175	0.002424	0.00215
Std. Dev.	0.0004087	0.002164	0.001699
Upper Lim.	0.002073	0.011	0.0043
Lower Lim.	0.001049	0.00064	0.0011

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001					0.00345
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						0.0031
7/20/2016	<0.001	<0.001	<0.001	<0.001		
9/14/2016	<0.001	<0.001	<0.001	<0.001		0.0024
11/10/2016				<0.001		0.0023
11/11/2016	<0.001	<0.001	<0.001			
1/24/2017						0.0019
1/27/2017		0.00047 (J)	<0.001	0.00066 (J)		
2/6/2017	<0.001					
2/8/2017					<0.001	
2/23/2017					<0.001	
3/14/2017						0.0016
3/15/2017	<0.001	<0.001	<0.001	<0.001		
3/17/2017					0.0006 (J)	
4/11/2017					0.0032	
4/25/2017						0.0019
4/26/2017	<0.001	<0.001	<0.001	<0.001	0.0019	
5/17/2017					0.0014	
6/7/2017					0.0021	
7/11/2017					0.00095 (J)	
8/9/2017				<0.001		0.0017
8/10/2017	<0.001	<0.001	0.00048 (J)			
3/29/2018		<0.001	<0.001	0.00067 (J)	<0.001	
3/30/2018	<0.001					0.0018
6/14/2018	0.0005 (J)	<0.001	0.00052 (J)	0.00093 (J)	<0.001	0.002
10/3/2018						0.0024
10/4/2018	0.00089 (J)	0.00054 (J)	<0.001	0.0015	0.0017	
2/27/2019	<0.001	<0.001	<0.001	0.00036 (J)	<0.001	0.0015
4/3/2019		<0.001	<0.001	0.00053 (J)	<0.001	
4/4/2019	<0.001					0.0019
9/18/2019				0.00039 (J)	<0.001	0.0016
9/19/2019	0.00038 (J)	<0.001	<0.001			
2/5/2020	0.00035 (J)	<0.001	<0.001	0.00048 (J)	<0.001	
2/7/2020						0.001
3/18/2020	<0.001	<0.001	<0.001			0.00088 (J)
3/19/2020				0.00039 (J)	<0.001	
9/23/2020	<0.001		<0.001			0.00061 (J)
9/24/2020		0.00051 (J)		<0.001	<0.001	
2/3/2021		<0.001	<0.001			
2/4/2021	<0.001			0.00038 (J)	<0.001	0.00069 (J)
3/11/2021	0.00031 (J)			0.00035 (J)	<0.001	
3/12/2021		<0.001	<0.001			0.00084 (J)
8/25/2021		<0.001	<0.001	<0.001	<0.001	
8/26/2021	<0.001					0.0012
3/3/2022	<0.001	<0.001		<0.001	<0.001	0.00057 (J)
3/4/2022			0.00037 (J)			
8/16/2022		<0.001				
8/17/2022						0.00052 (J)
8/18/2022			<0.001	0.00034 (J)		
8/19/2022	<0.001				<0.001	
2/15/2023						<0.001

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	<0.001	<0.001	<0.001	<0.001	<0.001	
Mean	0.0008883	0.0009357	0.0009291	0.0007817	0.001211	0.001581
Std. Dev.	0.0002391	0.0001702	0.0001886	0.0003213	0.0005498	0.0008198
Upper Lim.	0.001	0.001	0.001	0.001	0.0014	0.00201
Lower Lim.	0.00089	0.00054	0.00052	0.00039	0.00095	0.001152

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-20	WGWC-21	WGWC-22	WGWC-8
5/18/2016	<0.001	<0.001				
5/19/2016						<0.001
7/19/2016	0.0009 (J)					
7/20/2016		0.00058 (J)				0.00055 (J)
9/14/2016	0.0014	<0.001				
9/15/2016						<0.001
11/10/2016	0.0021	0.00082 (J)				
11/14/2016						<0.001
1/20/2017		<0.001				
1/24/2017	0.0015					
2/6/2017						<0.001
3/14/2017		<0.001				
3/15/2017	0.0014					<0.001
4/25/2017	0.0014	0.00095 (J)				
4/26/2017						<0.001
8/9/2017	0.0013	<0.001				
8/10/2017						<0.001
3/29/2018	0.0014					<0.001
3/30/2018		<0.001				
6/14/2018	<0.001	0.00076 (J)				<0.001
10/4/2018	0.0013	0.00088 (J)				0.0015
2/26/2019		0.0005 (J)				
2/27/2019	0.00046 (J)					0.00047 (J)
4/3/2019						<0.001
4/4/2019	<0.001	<0.001				
9/18/2019	<0.001	<0.001				
9/19/2019						0.00032 (J)
2/7/2020	<0.001	0.00075 (J)				0.0011
3/18/2020	<0.001	0.00054 (J)				
3/19/2020						0.00071 (J)
9/22/2020						0.0011
9/23/2020	<0.001	0.00067 (J)				
2/3/2021						0.0013
2/4/2021	<0.001	0.00035 (J)				
3/11/2021	<0.001	<0.001				0.0009 (J)
8/25/2021	<0.001	<0.001				
8/26/2021			0.00031 (J)	0.00057 (J)	<0.001	0.0013
1/11/2022				0.00036 (J)	<0.001	
1/12/2022			0.00052 (J)			
3/3/2022	<0.001			0.00053 (J)		0.0014
3/4/2022		<0.001	0.00078 (J)		0.00046 (J)	
6/6/2022				0.00083 (J)		
6/7/2022			0.00033 (J)		0.00029 (J)	
8/16/2022		<0.001		0.00028 (J)		0.00097 (J)
8/17/2022	<0.001					
8/18/2022			<0.001			
8/19/2022					<0.001	
2/15/2023	<0.001				<0.001	
2/16/2023		<0.001	<0.001	<0.001		<0.001
Mean	0.001137	0.0008609	0.0006567	0.000595	0.0007917	0.0009835
Std. Dev.	0.0003124	0.0002015	0.0003151	0.0002752	0.0003272	0.0002734
Upper Lim.	0.0014	0.001	0.0007446	0.0007759	0.001	0.001007

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-20	WGWC-21	WGWC-22	WGWC-8
Lower Lim.	0.001	0.00075	0.0002254	0.0002521	0.00029	0.0006326

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-9
5/19/2016	<0.001
7/20/2016	0.00078 (J)
9/14/2016	<0.001
2/9/2017	0.0017
3/15/2017	0.00047 (J)
4/11/2017	<0.001
4/26/2017	<0.001
8/10/2017	<0.001
3/29/2018	<0.001
6/14/2018	<0.001
10/4/2018	<0.001
2/28/2019	<0.001
4/3/2019	<0.001
9/19/2019	<0.001
2/5/2020	<0.001
3/19/2020	<0.001
9/23/2020	<0.001
2/4/2021	<0.001
3/12/2021	<0.001
8/26/2021	<0.001
3/3/2022	<0.001
8/17/2022	<0.001
2/15/2023	<0.001
Mean	0.0009978
Std. Dev.	0.000193
Upper Lim.	0.0017
Lower Lim.	0.00078

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.0391					0.0206
5/19/2016		0.031	0.0214	0.055		
7/19/2016						0.019
7/20/2016	0.028	0.029	0.019	0.039		
9/14/2016	0.035	0.031	0.02	0.04		0.02
11/10/2016				0.04		0.02
11/11/2016	0.042	0.034	0.022			
1/24/2017						0.017
1/27/2017		0.042	0.023	0.042		
2/6/2017	0.041					
2/8/2017					0.037	
2/23/2017					0.051	
3/14/2017						0.018
3/15/2017	0.04	0.032	0.024	0.058		
3/17/2017					0.046	
4/11/2017					0.055	
4/25/2017						0.018
4/26/2017	0.039	0.03	0.004	0.054	0.042	
5/17/2017					0.052	
6/7/2017					0.06	
7/11/2017					0.038	
8/9/2017				0.055		0.02
8/10/2017	0.038	0.03	0.017			
3/29/2018		0.028	0.017	0.061	0.028	
3/30/2018	0.042					0.021
6/14/2018	0.038	0.03	0.015	0.055	0.023	0.022
10/3/2018						0.024
10/4/2018	0.04	0.035	0.017	0.046	0.036	
2/27/2019	0.04	0.04	0.016	0.054	0.028	0.023
4/3/2019		0.035	0.015	0.056	0.026	
4/4/2019	0.04					0.022
9/18/2019				0.062	0.025	0.026
9/19/2019	0.038	0.033	0.016			
2/5/2020	0.061	0.047	0.016	0.052	0.077	
2/7/2020						0.022
3/18/2020	0.035	0.038	0.016			0.021
3/19/2020				0.072	0.031	
9/23/2020	0.035		0.016			0.027
9/24/2020		0.061		0.038	0.034	
2/3/2021		0.039	0.015			
2/4/2021	0.035			0.047	0.029	0.028
3/11/2021	0.033			0.049	0.032	
3/12/2021		0.045	0.017			0.028
8/25/2021		0.04	0.016	0.046	0.03	
8/26/2021	0.032					0.029
3/3/2022	0.033	0.04		0.045	0.029	0.029
3/4/2022			0.016			
8/16/2022		0.038				
8/17/2022						0.027
8/18/2022			0.014	0.041		
8/19/2022	0.03				0.026	
2/15/2023						0.029

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	0.032	0.041	0.014	0.037	0.028	
Mean	0.03766	0.03691	0.0168	0.04974	0.03752	0.02307
Std. Dev.	0.006423	0.007495	0.003974	0.009056	0.01356	0.003964
Upper Lim.	0.04034	0.04039	0.01902	0.05448	0.0433	0.02514
Lower Lim.	0.03431	0.03296	0.01526	0.045	0.03029	0.021

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	0.0715	0.0219				
7/19/2016	0.069					
7/20/2016		0.019				
9/14/2016	0.066	0.017				
11/10/2016	0.069	0.02				
11/11/2016			0.0022 (J)			
1/20/2017		0.018				
1/24/2017	0.068					
2/6/2017			0.0018 (J)			
3/14/2017		0.019				
3/15/2017	0.065		0.0015 (J)			
4/11/2017			0.0014 (J)			
4/25/2017	0.057	0.023				
4/26/2017			0.0014 (J)			
6/7/2017			0.0014 (J)			
7/11/2017			0.0013 (J)			
8/9/2017	0.069	0.017				
8/10/2017			0.0012 (J)			
3/29/2018	0.05		0.00097 (J)			
3/30/2018		0.015				
6/14/2018	0.046	0.013	0.0011 (J)			
10/4/2018	0.046	0.013	0.0012 (J)			
2/26/2019		0.012				
2/27/2019	0.028					
2/28/2019			<0.01			
4/2/2019			0.0013 (J)			
4/4/2019	0.027	0.011				
9/18/2019	0.032	0.011	<0.01			
2/7/2020	0.034	0.011	0.0065 (J)			
3/18/2020	0.034	0.012				
5/4/2020			<0.01			
9/23/2020	0.037	0.012	<0.01			
2/3/2021			<0.01			
2/4/2021	0.039	0.012				
3/11/2021	0.037	0.011	<0.01			
8/25/2021	0.035	0.011				
8/26/2021			<0.01	<0.01	0.0086 (J)	0.031
1/11/2022					0.0076 (J)	0.04
1/12/2022				<0.01		
3/3/2022	0.041		<0.01		0.0068 (J)	
3/4/2022		0.011		<0.01		0.038
6/6/2022					0.0079 (J)	
6/7/2022				<0.01		0.025
8/16/2022		0.011			0.0039 (J)	
8/17/2022	0.032		0.0012 (J)			
8/18/2022				0.00091 (J)		
8/19/2022						0.023
2/15/2023	0.044					0.033
2/16/2023		0.01	0.00096 (J)	<0.01	0.0053 (J)	
Mean	0.04767	0.01439	0.004584	0.008485	0.006683	0.03167
Std. Dev.	0.01549	0.004034	0.004188	0.003711	0.00177	0.006802
Upper Lim.	0.05477	0.018	0.01	0.01	0.009115	0.04101

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
Lower Lim.	0.03889	0.011	0.0012	0.00091	0.004252	0.02232

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016				0.0026	<0.01
7/20/2016				0.0017 (J)	0.0014 (J)
9/14/2016					0.00092 (J)
9/15/2016				0.0039	
11/14/2016				0.00085 (J)	
2/6/2017				0.0011 (J)	
2/9/2017					0.0015 (J)
3/15/2017				0.0013 (J)	0.00054 (J)
4/11/2017					0.0007 (J)
4/26/2017				0.00098 (J)	<0.01
8/10/2017				0.0025	0.00053 (J)
3/29/2018				0.00085 (J)	<0.01
6/14/2018				0.0028	0.00088 (J)
10/4/2018				0.0017 (J)	0.00076 (J)
2/27/2019				<0.01	
2/28/2019					0.0023 (J)
4/3/2019				0.001 (J)	<0.01
9/19/2019				<0.01	0.0018 (J)
2/5/2020					0.0022 (J)
2/7/2020				<0.01	
3/19/2020				<0.01	0.0021 (J)
9/22/2020				<0.01	
9/23/2020					<0.01
2/3/2021				<0.01	
2/4/2021					0.0016 (J)
3/11/2021				<0.01	
3/12/2021					<0.01
8/26/2021	0.0078 (J)	0.042	0.41	<0.01	<0.01
1/11/2022	0.0072 (J)	0.029	0.38		
3/3/2022		0.028		<0.01	<0.01
3/4/2022	0.0081 (J)		0.38		
6/6/2022	0.0097 (J)	0.032			
6/7/2022			0.34		
8/16/2022				0.0014 (J)	
8/17/2022	0.0089 (J)		0.31		<0.01
8/18/2022		0.041			
2/15/2023	0.0055 (J)	0.036	0.33		<0.01
2/16/2023				0.00093 (J)	
Mean	0.007867	0.03467	0.3583	0.00494	0.005097
Std. Dev.	0.001451	0.005989	0.03764	0.004209	0.004423
Upper Lim.	0.009861	0.04289	0.41	0.01	0.01
Lower Lim.	0.005873	0.02644	0.3066	0.0011	0.00092

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-16	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016		<0.0025				
7/19/2016		<0.0025				
9/14/2016		<0.0025				
11/10/2016		<0.0025				
1/24/2017		<0.0025				
2/8/2017	<0.0025					
2/23/2017	<0.0025					
3/15/2017		<0.0025				
3/17/2017	<0.0025					
4/11/2017	<0.0025					
4/25/2017		<0.0025				
4/26/2017	<0.0025					
5/17/2017	<0.0025					
6/7/2017	<0.0025					
7/11/2017	<0.0025					
8/9/2017		<0.0025				
3/29/2018	<0.0025	<0.0025				
6/14/2018	<0.0025	<0.0025				
10/4/2018	<0.0025	<0.0025				
2/27/2019	0.00017 (J)	0.00022 (J)				
4/3/2019	<0.0025					
4/4/2019		<0.0025				
9/18/2019	0.00032 (J)	<0.0025				
2/5/2020	0.00024 (J)					
2/7/2020		<0.0025				
3/18/2020		<0.0025				
3/19/2020	0.00025 (J)					
9/23/2020		<0.0025				
9/24/2020	0.00024 (J)					
2/4/2021	0.00026 (J)	<0.0025				
3/11/2021	<0.0025	<0.0025				
8/25/2021	<0.0025	<0.0025				
8/26/2021			0.0081	<0.0025	0.00053 (J)	0.00089 (J)
1/11/2022				<0.0025	0.00057 (J)	0.0012 (J)
1/12/2022			0.012			
3/3/2022	<0.0025	<0.0025		<0.0025		
3/4/2022			0.01		0.00066 (J)	0.00097 (J)
6/6/2022				<0.0025		0.0011 (J)
6/7/2022			0.0089		0.00055 (J)	
8/16/2022				0.00022 (J)		
8/17/2022		<0.0025				0.00078 (J)
8/18/2022			0.0081			
8/19/2022	<0.0025				0.00063 (J)	
2/15/2023		<0.0025			0.00067 (J)	0.0012 (J)
2/16/2023	0.00031 (J)		0.011	<0.0025		
Mean	0.001817	0.002401	0.009683	0.00212	0.0006017	0.001023
Std. Dev.	0.001056	0.0004754	0.001602	0.0009308	5.947E-05	0.0001721
Upper Lim.	0.0025	0.0025	0.01188	0.0025	0.0006834	0.00126
Lower Lim.	0.00031	0.00022	0.007483	0.00022	0.00052	0.0007869

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			0.00102 (J)	<0.0025
7/20/2016			0.0014 (J)	<0.0025
9/14/2016				<0.0025
9/15/2016			0.00093 (J)	
11/14/2016			0.0014 (J)	
2/6/2017			0.0017 (J)	
2/9/2017				0.00041 (J)
3/15/2017			0.0016 (J)	<0.0025
4/11/2017				<0.0025
4/26/2017			0.0017 (J)	<0.0025
8/10/2017			0.0017 (J)	0.00034 (J)
3/29/2018			0.0018 (J)	<0.0025
6/14/2018			0.0015 (J)	<0.0025
10/4/2018			0.0019 (J)	0.00036 (J)
2/27/2019			0.0021 (J)	
2/28/2019				0.00031 (J)
4/3/2019			0.0019 (J)	<0.0025
9/19/2019			0.0019	0.00041 (J)
2/5/2020				0.0004 (J)
2/7/2020			0.0023	
3/19/2020			0.0028	0.00056 (J)
9/22/2020			0.0025	
9/23/2020				0.00034 (J)
2/3/2021			0.0025	
2/4/2021				0.00039 (J)
3/11/2021			0.0022 (J)	
3/12/2021				0.00034 (J)
8/26/2021	0.014	0.00028 (J)	0.002 (J)	0.00038 (J)
1/11/2022	0.014	0.0002 (J)		
3/3/2022	0.01		0.0027	0.00036 (J)
3/4/2022		<0.0025		
6/6/2022	0.0062			
6/7/2022		0.0003 (J)		
8/16/2022			0.0018 (J)	
8/17/2022		0.00022 (J)		0.00033 (J)
8/18/2022	0.0044			
2/15/2023	0.0099	0.00026 (J)		0.00044 (J)
2/16/2023			0.0025	
Mean	0.00975	0.0006267	0.001907	0.001212
Std. Dev.	0.003935	0.0009185	0.000497	0.001057
Upper Lim.	0.01516	0.0025	0.002166	0.0025
Lower Lim.	0.004344	0.0002	0.001647	0.00036

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-16	WGWC-20	WGWC-22	WGWC-24	WGWC-25
5/18/2016	<0.0025	0.000362 (J)				
7/19/2016		<0.0025				
7/20/2016	<0.0025					
9/14/2016	<0.0025	0.00037 (J)				
11/10/2016		<0.0025				
11/11/2016	<0.0025					
1/24/2017		0.00055 (J)				
2/6/2017	<0.0025					
3/15/2017	<0.0025	0.00067 (J)				
4/25/2017		0.00058 (J)				
4/26/2017	<0.0025					
8/9/2017		0.00054 (J)				
8/10/2017	<0.0025					
3/29/2018		0.00082 (J)				
3/30/2018	<0.0025					
6/14/2018	<0.0025	0.0007 (J)				
10/4/2018	<0.0025	0.00065 (J)				
2/27/2019	<0.0025	0.00055 (J)				
4/4/2019	<0.0025	0.00047 (J)				
9/18/2019		0.00017 (J)				
9/19/2019	0.00021 (J)					
2/5/2020	<0.0025					
2/7/2020		<0.0025				
3/18/2020	<0.0025	0.00022 (J)				
9/23/2020	<0.0025	<0.0025				
2/4/2021	<0.0025	<0.0025				
8/26/2021			<0.0025	<0.0025	0.00061 (J)	<0.0025
1/11/2022				<0.0025	0.0004 (J)	<0.0025
1/12/2022			0.00026 (J)			
3/3/2022	<0.0025	<0.0025			0.0003 (J)	
3/4/2022			<0.0025	0.00025 (J)		<0.0025
6/6/2022					0.0003 (J)	
6/7/2022			<0.0025	<0.0025		<0.0025
8/17/2022		<0.0025				0.00012 (J)
8/18/2022			<0.0025		0.00015 (J)	
8/19/2022	<0.0025			9E-05 (J)		
2/15/2023		8.5E-05 (J)		0.00028 (J)	0.00057 (J)	0.0001 (J)
2/16/2023	<0.0025		0.00057 (J)			
Mean	0.002391	0.001154	0.001805	0.001353	0.0003883	0.001703
Std. Dev.	0.0004997	0.0009904	0.001081	0.001258	0.0001759	0.001234
Upper Lim.	0.0025	0.0005633	0.0025	0.0025	0.00063	0.0025
Lower Lim.	0.00021	0.0002785	0.00026	9E-05	0.0001467	0.0001

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-8
5/19/2016	<0.0025
7/20/2016	<0.0025
9/15/2016	<0.0025
11/14/2016	<0.0025
2/6/2017	<0.0025
3/15/2017	<0.0025
4/26/2017	<0.0025
8/10/2017	<0.0025
3/29/2018	<0.0025
6/14/2018	<0.0025
10/4/2018	<0.0025
2/27/2019	<0.0025
4/3/2019	<0.0025
9/19/2019	<0.0025
2/7/2020	<0.0025
3/19/2020	<0.0025
9/22/2020	<0.0025
2/3/2021	<0.0025
3/3/2022	<0.0025
8/16/2022	<0.0025
2/16/2023	0.00065 (J)
Mean	0.002412
Std. Dev.	0.0004037
Upper Lim.	0.0025
Lower Lim.	0.00065

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-13	WGWC-14A	WGWC-15	WGWC-21
5/18/2016	<0.002				<0.002	
5/19/2016		<0.002	<0.002			
7/19/2016					<0.002	
7/20/2016	0.0012 (J)	<0.002	<0.002			
9/14/2016	<0.002	<0.002	<0.002		<0.002	
11/10/2016			<0.002		<0.002	
11/11/2016	0.0015 (J)	<0.002				
1/24/2017					<0.002	
1/27/2017		<0.002	<0.002			
2/6/2017	0.0011 (J)					
2/8/2017				<0.002		
2/23/2017				<0.002		
3/14/2017					<0.002	
3/15/2017	0.0015 (J)	<0.002	<0.002			
3/17/2017				<0.002		
4/11/2017				<0.002		
4/25/2017					<0.002	
4/26/2017	0.0013 (J)	0.0011 (J)	<0.002	<0.002		
5/17/2017				<0.002		
6/7/2017				<0.002		
7/11/2017				<0.002		
8/9/2017			<0.002		<0.002	
8/10/2017	0.0016 (J)	<0.002				
3/29/2018		0.0012 (J)	<0.002	<0.002		
3/30/2018	0.0027				<0.002	
6/14/2018	0.0023 (J)	<0.002	<0.002	<0.002	<0.002	
10/3/2018					<0.002	
10/4/2018	0.0031	<0.002	<0.002	<0.002		
2/27/2019	0.0031	0.0021 (J)	0.0018 (J)	<0.002	0.0015 (J)	
4/3/2019		<0.002	<0.002	<0.002		
4/4/2019	0.0021 (J)				<0.002	
9/18/2019			<0.002	<0.002	<0.002	
9/19/2019	0.0022	<0.002				
2/5/2020	0.0022	<0.002	<0.002	0.0017 (J)		
2/7/2020					<0.002	
3/18/2020	<0.002	<0.002			<0.002	
3/19/2020			<0.002	<0.002		
9/23/2020	0.0018 (J)				<0.002	
9/24/2020		<0.002	<0.002	<0.002		
2/3/2021		<0.002				
2/4/2021	0.0018 (J)		<0.002	<0.002	<0.002	
3/11/2021	0.0023		0.0019 (J)	<0.002		
3/12/2021		0.0017 (J)			<0.002	
8/25/2021		<0.002	0.0017 (J)	<0.002		
8/26/2021	0.0024				<0.002	<0.002
1/11/2022						<0.002
3/3/2022	0.0023	<0.002	<0.002	<0.002	<0.002	<0.002
6/6/2022						<0.002
8/16/2022		<0.002				<0.002
8/17/2022					<0.002	
8/18/2022			<0.002			
8/19/2022	0.0024			<0.002		

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-13	WGWC-14A	WGWC-15	WGWC-21
2/15/2023					<0.002	
2/16/2023	0.0014 (J)	<0.002	<0.002	<0.002		0.0015 (J)
Mean	0.001883	0.001917	0.001974	0.001987	0.001978	0.001917
Std. Dev.	0.0006506	0.0002516	7.518E-05	6.255E-05	0.0001043	0.0002041
Upper Lim.	0.002223	0.0021	0.002	0.002	0.002	0.002
Lower Lim.	0.001542	0.0017	0.0019	0.0017	0.0015	0.0015

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-9
5/19/2016	<0.002
7/20/2016	<0.002
9/14/2016	<0.002
2/9/2017	<0.002
3/15/2017	<0.002
4/11/2017	<0.002
4/26/2017	<0.002
8/10/2017	<0.002
3/29/2018	<0.002
6/14/2018	<0.002
10/4/2018	<0.002
2/28/2019	0.0025
4/3/2019	<0.002
9/19/2019	<0.002
2/5/2020	<0.002
3/19/2020	<0.002
9/23/2020	<0.002
2/4/2021	<0.002
3/12/2021	<0.002
8/26/2021	<0.002
3/3/2022	<0.002
8/17/2022	<0.002
2/15/2023	<0.002
Mean	0.002022
Std. Dev.	0.0001043
Upper Lim.	0.0025
Lower Lim.	0.002

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.00201 (J)					<0.0025
5/19/2016		<0.0025	<0.01	<0.0025		
7/19/2016						<0.0025
7/20/2016	0.00066 (J)	0.0025	0.0013 (J)	<0.0025		
9/14/2016	0.00095 (J)	<0.0025	0.00098 (J)	<0.0025		<0.0025
11/10/2016				<0.0025		<0.0025
11/11/2016	0.001 (J)	0.00052 (J)	0.0017 (J)			
1/24/2017						<0.0025
1/27/2017		0.00049 (J)	0.0022 (J)	<0.0025		
2/6/2017	0.00072 (J)					
2/8/2017					0.0051	
2/23/2017					0.014	
3/14/2017						<0.0025
3/15/2017	0.00062 (J)	0.00064 (J)	0.0016 (J)	<0.0025		
3/17/2017					0.013	
4/11/2017					0.016	
4/25/2017						<0.0025
4/26/2017	0.0014 (J)	0.001 (J)	0.00026 (J)	<0.0025	0.01	
5/17/2017					0.011	
6/7/2017					0.01	
7/11/2017					0.0085	
8/9/2017				0.0004 (J)		<0.0025
8/10/2017	<0.0025	0.0011 (J)	0.00049 (J)			
3/29/2018		<0.0025	0.0008 (J)	0.0008 (J)	0.015	
3/30/2018	0.0035					<0.0025
6/14/2018	0.0012 (J)	<0.0025	0.00067 (J)	0.00054 (J)	0.011	<0.0025
10/3/2018						<0.0025
10/4/2018	0.00086 (J)	<0.0025	0.00079 (J)	<0.0025	0.0055	
2/27/2019	0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)	0.0049	<0.0025
4/3/2019		0.00081 (J)	0.00043 (J)	<0.0025	0.0056	
4/4/2019	0.0017 (J)					<0.0025
9/18/2019				<0.0025	0.005	<0.0025
9/19/2019	0.0023	<0.0025	0.00028 (J)			
2/5/2020	0.0013	0.00026 (J)	0.00058	<0.0025	0.0044	
2/7/2020						<0.0025
3/18/2020	0.0012 (J)	0.00069 (J)	0.00071 (J)			<0.0025
3/19/2020				<0.0025	0.0039	
9/23/2020	0.00062 (J)		0.00039 (J)			<0.0025
9/24/2020		<0.0025		0.00032 (J)	0.0035	
2/3/2021		0.00072 (J)	0.00017 (J)			
2/4/2021	0.00059 (J)			<0.0025	0.0041	0.00015 (J)
3/11/2021	0.00058 (J)			<0.0025	0.0037	
3/12/2021		0.0022 (J)	0.00042 (J)			<0.0025
8/25/2021		0.00045 (J)	0.0005 (J)	<0.0025	0.0029	
8/26/2021	0.00044 (J)					<0.0025
3/3/2022	0.00045 (J)	0.00026 (J)		<0.0025	0.0024 (J)	<0.0025
3/4/2022			0.00056 (J)			
8/16/2022		<0.0025				
8/17/2022						<0.0025
8/18/2022			0.00034 (J)	<0.0025		
8/19/2022	0.0014 (J)				0.002 (J)	
2/15/2023						<0.0025

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	<0.0025	<0.0025	0.0004 (J)	<0.0025	0.0022 (J)	
Mean	0.001152	0.00158	0.0009204	0.002052	0.007117	0.002398
Std. Dev.	0.000715	0.0009506	0.001025	0.0008762	0.004432	0.00049
Upper Lim.	0.001414	0.0025	0.000982	0.0025	0.009435	0.0025
Lower Lim.	0.0007674	0.00064	0.0004403	0.0008	0.004799	0.00015

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	0.0069	0.00245 (J)				
7/19/2016	0.012					
7/20/2016		0.0018 (J)				
9/14/2016	0.013	0.0014 (J)				
11/10/2016	0.016	0.0016 (J)				
11/11/2016			<0.0025			
1/20/2017		0.0014 (J)				
1/24/2017	0.015					
2/6/2017			0.00058 (J)			
3/14/2017		0.0023 (J)				
3/15/2017	0.014		0.00045 (J)			
4/11/2017			<0.0025			
4/25/2017	0.014	0.0023 (J)				
4/26/2017			<0.0025			
6/7/2017			<0.0025			
7/11/2017			<0.0025			
8/9/2017	0.016	0.0011 (J)				
8/10/2017			0.00049 (J)			
3/29/2018	0.0092		<0.0025			
3/30/2018		0.0016 (J)				
6/14/2018	0.0035	0.00055 (J)	<0.0025			
10/4/2018	0.0078	0.00041 (J)	<0.0025			
2/26/2019		0.00086 (J)				
2/27/2019	0.00084 (J)					
2/28/2019			0.00019 (J)			
4/2/2019			<0.0025			
4/4/2019	0.00077 (J)	<0.0025				
9/18/2019	0.00011 (J)	0.00018 (J)	0.00045 (J)			
2/7/2020	0.00016 (J)	0.00077	0.00024 (J)			
3/18/2020	0.00016 (J)	0.00052 (J)				
5/4/2020			0.00018 (J)			
9/23/2020	<0.0025	0.0009 (J)	0.00024 (J)			
2/3/2021			0.00025 (J)			
2/4/2021	0.00026 (J)	0.00042 (J)				
3/11/2021	0.00013 (J)	0.00035 (J)	0.00022 (J)			
8/25/2021	<0.0025	0.00042 (J)				
8/26/2021			0.00022 (J)	0.00046 (J)	0.00042 (J)	0.00038 (J)
1/11/2022					0.00032 (J)	0.00025 (J)
1/12/2022				0.00037 (J)		
3/3/2022	<0.0025		0.00034 (J)		0.00042 (J)	
3/4/2022		0.00026 (J)		<0.0025		0.00034 (J)
6/6/2022					0.001 (J)	
6/7/2022				<0.0025		<0.0025
8/16/2022		<0.0025			0.00039 (J)	
8/17/2022	<0.0025		<0.0025			
8/18/2022				<0.0025		
8/19/2022						<0.0025
2/15/2023	<0.0025					<0.0025
2/16/2023		<0.0025	0.00053 (J)	<0.0025	<0.0025	
Mean	0.006188	0.001102	0.001277	0.001805	0.0008417	0.001412
Std. Dev.	0.006027	0.0006843	0.001101	0.001077	0.0008493	0.001193
Upper Lim.	0.005748	0.00146	0.0025	0.0025	0.0025	0.0025

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
Lower Lim.	0.0008712	0.0007439	0.00024	0.00037	0.00032	0.00025

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016				<0.0025	<0.0025
7/20/2016				<0.0025	
9/14/2016					<0.0025
9/15/2016				<0.0025	
11/14/2016				<0.0025	
2/6/2017				<0.0025	
2/9/2017					0.00073 (J)
3/15/2017				<0.0025	<0.0025
4/11/2017					<0.0025
4/26/2017				<0.0025	<0.0025
8/10/2017				<0.0025	<0.0025
3/29/2018				0.00066 (J)	<0.0025
6/14/2018				0.0011 (J)	<0.0025
10/4/2018				<0.0025	<0.0025
2/27/2019				0.0019 (J)	
2/28/2019					<0.0025
4/3/2019				0.0037	<0.0025
9/19/2019				0.0028	<0.0025
2/5/2020					<0.0025
2/7/2020				0.0011	
3/19/2020				0.00092 (J)	<0.0025
9/22/2020				0.00065 (J)	
9/23/2020					<0.0025
2/3/2021				0.00014 (J)	
2/4/2021					<0.0025
3/11/2021				0.00043 (J)	
3/12/2021					<0.0025
8/26/2021	0.00017 (J)	0.13	0.005	0.0005 (J)	<0.0025
1/11/2022	0.00016 (J)	0.11	0.0048		
3/3/2022		0.086		0.0003 (J)	<0.0025
3/4/2022	<0.0025		0.004		
6/6/2022	<0.0025	0.042			
6/7/2022			0.0043		
8/16/2022				0.00075 (J)	
8/17/2022	<0.0025		0.0037		<0.0025
8/18/2022		0.031			
2/15/2023	<0.0025	0.084	0.0049		<0.0025
2/16/2023				<0.0025	
Mean	0.001722	0.0805	0.00445	0.001737	0.002423
Std. Dev.	0.001206	0.0382	0.000532	0.001033	0.0003691
Upper Lim.	0.0025	0.133	0.005181	0.0025	0.0025
Lower Lim.	0.00016	0.02803	0.003719	0.00066	0.00073

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.182 (U)					0.569
5/19/2016		0.431 (U)	0.0698 (U)	0.219 (U)		
7/19/2016						0.29 (U)
7/20/2016	-0.135 (U)	-0.263 (U)	-0.0646 (U)	0.404 (U)		
9/14/2016	0.311 (U)	0.13 (U)	0.199 (U)	0.692		0.412 (U)
11/10/2016				1		0.709
11/11/2016	0.542	0.0257 (U)	0.467			
1/24/2017						0.779
1/27/2017		0.898	0.836	0.668		
2/6/2017	0.104 (U)					
2/8/2017					0.958	
2/23/2017					0.771	
3/14/2017						0.247 (U)
3/15/2017	0.523	0.121 (U)	0.254 (U)	0.847		
3/17/2017					1.7	
4/11/2017					0.901	
4/25/2017						0.515
4/26/2017	0.069 (U)	0.0309 (U)	0.267 (U)	0.408 (U)	0.434	
5/17/2017					0.632	
6/7/2017					1.06	
7/11/2017					0.716	
8/9/2017				0.816		1.7
8/10/2017	0.189 (U)	0.326 (U)	0.912			
3/29/2018		0.461	0.419	0.51	0.58	
3/30/2018	0.575					0.0985 (U)
6/14/2018	0.523	0.275 (U)	-0.263 (U)	0.463	0.55	0.171 (U)
10/3/2018						0.766
10/4/2018	0.84	1.18	1.29	0.99	0.563	
2/27/2019	0.236 (U)	0.374	0.415	1.08	0.538	0.363 (U)
4/3/2019		0.187 (U)	0.264 (U)	0.446	0.497	
4/4/2019	0.233 (U)					0.418
9/18/2019				0.392	0.376 (U)	0.484
9/19/2019	0.124 (U)	0.338 (U)	0.329 (U)			
2/5/2020	0.0961 (U)	0.163 (U)	0.225 (U)	0.609	0.5	
2/7/2020						0.125 (U)
3/18/2020	0.461 (U)	0.866	-0.0262 (U)			0.303 (U)
3/19/2020				0.47	0.376 (U)	
9/23/2020	0.442 (U)		0.785			0.448 (U)
9/24/2020		1.2		1.02	0.796	
2/3/2021		0.718	0.322 (U)			
2/4/2021	0.0332 (U)			0.139 (U)	0.564	0.488 (U)
3/11/2021	0.42 (U)			0.473	0.764	
3/12/2021		0.0729 (U)	0.633			0.591
8/25/2021		0.401	0.443 (U)	0.913	0.705	
8/26/2021	0.321 (U)					0.678
3/3/2022	0.587	0.622		0.621	0.956	0.358 (U)
3/4/2022			0.408			
8/16/2022		0.5				
8/17/2022						0.563
8/18/2022			0.279 (U)	0.719		
8/19/2022	0.497 (U)				0.932	
2/15/2023						0.0878 (U)

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	0.326 (U)	0.417 (U)	0.388 (U)	0.2 (U)	0.455 (U)	
Mean	0.3261	0.4119	0.3848	0.613	0.7097	0.4854
Std. Dev.	0.2288	0.3678	0.3404	0.2754	0.2938	0.3344
Upper Lim.	0.4457	0.6043	0.5629	0.757	0.8308	0.6051
Lower Lim.	0.2064	0.2196	0.2068	0.469	0.5537	0.2991

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	1.03	0.116 (U)				
7/19/2016	2.39					
7/20/2016		0.247 (U)				
9/14/2016	3.05	0.594				
11/10/2016	2.87	0.431				
11/11/2016			-0.11 (U)			
1/20/2017		1.35				
1/24/2017	2.68					
2/6/2017			0.471			
3/14/2017		-0.107 (U)				
3/15/2017	1.64		0.255 (U)			
4/11/2017			0.19 (U)			
4/25/2017	0.878	0.228 (U)				
4/26/2017			0.22 (U)			
6/7/2017			0.126 (U)			
7/11/2017			0.511			
8/9/2017	2.5	-0.0246 (U)				
8/10/2017			0.882			
3/29/2018	1.6		0.252 (U)			
3/30/2018		0.135 (U)				
6/14/2018	1.09	-0.373 (U)	0.0458 (U)			
10/4/2018	1.99	0.775	0.381			
2/26/2019		0.431				
2/27/2019	0.721					
2/28/2019			0.254 (U)			
4/2/2019			0.209 (U)			
4/4/2019	0.632	0.386				
9/18/2019	0.278 (U)	0.167 (U)	0.403 (U)			
2/7/2020	0.797	0.244 (U)	0.2 (U)			
3/18/2020	0.437	0.0655 (U)				
5/4/2020			0.0697 (U)			
9/23/2020	0.276 (U)	0.643	1.18			
2/3/2021			0.684			
2/4/2021	0.727	0.438 (U)				
3/11/2021	0.942	0.247 (U)	0.286 (U)			
8/25/2021	0.518	0.565				
8/26/2021			0.796	1.6	1.17	3.54
1/11/2022					0.919	6.91
1/12/2022				1.09		
3/3/2022	0.573		0.909		1.31	
3/4/2022		0.573		0.925		7.57
6/6/2022					2.61	
6/7/2022				0.67		4.67
8/16/2022		0.668			1.35	
8/17/2022	0.946		0.155 (U)			
8/18/2022				0.994		
8/19/2022						3.07
2/15/2023	0.734					5.98
2/16/2023		0.121 (U)	0.248 (U)	0.853	0.617	
Mean	1.274	0.3443	0.3747	1.022	1.329	5.29
Std. Dev.	0.8774	0.3524	0.3179	0.3167	0.6844	1.826
Upper Lim.	1.597	0.5286	0.5409	1.457	2.27	7.799

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
Lower Lim.	0.7565	0.16	0.2084	0.587	0.3891	2.781

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016				0.711 (U)	0.209 (U)
7/20/2016				1.14	-0.084 (U)
9/14/2016					0.42 (U)
9/15/2016				1.26	
11/14/2016				0.749	
2/6/2017				1.05	
2/9/2017					0.393
3/15/2017				1.32	0.271 (U)
4/11/2017					0.488 (U)
4/26/2017				1.07	0.14 (U)
8/10/2017				1.88	0.379
3/29/2018				2.31	0.278 (U)
6/14/2018				1.86	0.157 (U)
10/4/2018				2.44	0.48
2/27/2019				2.42	
2/28/2019					0.271 (U)
4/3/2019				1.55	0.0621 (U)
9/19/2019				2.06	0.537
2/5/2020					-0.137 (U)
2/7/2020				1.66	
3/19/2020				1.21	0.23 (U)
9/22/2020				1.75	
9/23/2020					0.0587 (U)
2/3/2021				2	
2/4/2021					0.353 (U)
3/11/2021				2.38	
3/12/2021					0.831
8/26/2021	0.703	1.63	1.12	2.87	0.681
1/11/2022	0.218 (U)	0.749	0.606		
3/3/2022		0.893		3.18	0.431 (U)
3/4/2022	0.437 (U)		0.818		
6/6/2022	1.45	0.845			
6/7/2022			0.5		
8/16/2022				2.4	
8/17/2022	0.976		0.763		0.139 (U)
8/18/2022		1.03			
2/15/2023	0.985	0.974	0.873		0.0109 (U)
2/16/2023				3.04	
Mean	0.7948	1.02	0.78	1.84	0.2869
Std. Dev.	0.4399	0.3145	0.2166	0.7134	0.2355
Upper Lim.	1.399	1.44	1.078	2.213	0.4101
Lower Lim.	0.1906	0.6443	0.4824	1.466	0.1637

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.206					0.779
5/19/2016		0.039 (J)	0.12 (J)	0.384		
7/19/2016						0.97
7/20/2016	0.23	<0.1	0.11 (J)	0.34		
9/14/2016	0.17 (J)	<0.1	0.095 (J)	0.31		0.89
11/10/2016				0.26		0.88
11/11/2016	0.14 (J)	<0.1	<0.2			
1/24/2017						0.92
1/27/2017		<0.1	<0.2	0.28		
2/6/2017	0.15 (J)					
2/8/2017					<0.1	
2/23/2017					<0.1	
3/14/2017						0.77
3/15/2017	0.16 (J)	<0.1	<0.2	0.3		
3/17/2017					<0.1	
4/11/2017					<0.1	
4/25/2017						0.95
4/26/2017	0.17 (J)	<0.1	<0.2	0.33	<0.1	
5/17/2017					<0.1	
6/7/2017					<0.1	
7/11/2017					<0.1	
8/9/2017				0.32		0.91
8/10/2017	0.2	<0.1	0.11 (J)			
10/11/2017					<0.1	0.88
10/12/2017	0.14 (J)	<0.1	0.091 (J)	0.28		
3/29/2018		<0.1	0.089 (J)	0.27	<0.1	
3/30/2018	0.13 (J)					0.79
6/14/2018	0.15 (J)	<0.1	0.1 (J)	0.27	<0.1	0.79
10/3/2018						0.79
10/4/2018	0.18 (J)	<0.1	0.12 (J)	0.23	<0.1	
2/27/2019	0.21	0.047 (J)	0.06 (J)	0.25	<0.1	0.81
4/3/2019		0.048 (J)	0.084 (J)	0.24	0.048 (J)	
4/4/2019	0.13 (J)					0.78
9/18/2019				0.22	0.035 (J)	0.81
9/19/2019	0.13 (J)	0.037 (J)	0.093 (J)			
2/5/2020	0.14	0.045 (J)	0.098 (J)	0.2	0.04 (J)	
2/7/2020						0.79
3/18/2020	0.052 (J)	<0.1	0.033 (J)			0.71
3/19/2020				0.15	<0.1	
9/23/2020	0.09 (J)		0.064 (J)			0.63
9/24/2020		0.18		<0.1	0.028 (J)	
2/3/2021		0.027 (J)	0.082 (J)			
2/4/2021	0.12			0.16	0.033 (J)	0.69
3/11/2021	0.15			0.18	0.04 (J)	
3/12/2021		0.044 (J)	0.096 (J)			0.88
8/25/2021		0.056 (J)	0.14	0.2	0.071 (J)	
8/26/2021	0.16					0.77
3/3/2022	0.067 (J)	0.055 (J)		0.21	0.057 (J)	0.88
3/4/2022			0.068 (J)			
8/16/2022		<0.1				
8/17/2022						0.68
8/18/2022			0.073 (J)	0.14		

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/19/2022	0.1				<0.1	
2/15/2023						0.73
2/16/2023	0.11	0.041 (J)	0.089 (J)	0.15	<0.1	
Mean	0.1452	0.07996	0.109	0.2385	0.08133	0.8116
Std. Dev.	0.04353	0.03544	0.047	0.07692	0.02808	0.08846
Upper Lim.	0.1674	0.1	0.09739	0.2778	0.1	0.8568
Lower Lim.	0.123	0.045	0.07226	0.1992	0.048	0.7665

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	0.1 (J)	0.121 (J)				
7/19/2016	0.14 (J)					
7/20/2016		0.16 (J)				
9/14/2016	0.18 (J)	0.19 (J)				
11/10/2016	0.11 (J)	0.15 (J)				
11/11/2016			0.32			
1/20/2017		0.18 (J)				
1/24/2017	0.15 (J)					
2/6/2017			0.45			
3/14/2017		0.11 (J)				
3/15/2017	0.1 (J)		0.37			
4/11/2017			0.37			
4/25/2017	0.13 (J)	0.13 (J)				
4/26/2017			0.4			
6/7/2017			0.35			
7/11/2017			0.39			
8/9/2017	0.18 (J)	0.19 (J)				
8/10/2017			0.42			
10/11/2017	<2	0.14 (J)				
10/12/2017			0.36			
3/29/2018	0.13 (J)		0.34			
3/30/2018		0.095 (J)				
6/14/2018	<2	0.11 (J)	0.35			
10/4/2018	0.85 (J)	0.11 (J)	0.35			
2/26/2019		0.068 (J)				
2/27/2019	0.47					
2/28/2019			0.28			
4/2/2019			0.33			
4/4/2019	0.08 (J)	0.087 (J)				
9/18/2019	0.058 (J)	0.066 (J)	0.32			
2/7/2020	0.072 (J)	0.079 (J)	0.35			
3/18/2020	0.084 (J)	<0.1				
5/4/2020			0.36			
9/23/2020	0.049 (J)	0.05 (J)	0.25			
2/3/2021			0.3			
2/4/2021	0.052 (J)	0.064 (J)				
3/8/2021				1.8		
3/9/2021					1.7	1.1
3/11/2021	0.061 (J)	0.05 (J)	0.31			
4/7/2021					1.6	
4/8/2021				1.7		1.4
8/25/2021	0.099 (J)	0.093 (J)				
8/26/2021			0.38	2	2	0.51
1/11/2022					1.9	0.45
1/12/2022				1.8		
3/3/2022	0.067 (J)		0.4		1.8	
3/4/2022		0.06 (J)		2		0.42
6/6/2022					1.9	
6/7/2022				2.5		0.37
8/16/2022		0.06 (J)			1.8	
8/17/2022	0.062 (J)		0.28			
8/18/2022				2		

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
8/19/2022						0.31
2/15/2023	0.076 (J)					0.31
2/16/2023		0.069 (J)	0.33	1.9	1.9	
Mean	0.2208	0.1034	0.3483	1.963	1.825	0.6088
Std. Dev.	0.2949	0.04544	0.04659	0.2446	0.1282	0.4094
Upper Lim.	0.15	0.1266	0.3721	2.212	1.961	1.4
Lower Lim.	0.067	0.08023	0.3246	1.717	1.689	0.31

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016				0.304	1.58
7/20/2016				0.27	2
9/14/2016					1.8
9/15/2016				0.24	
11/14/2016				0.2	
2/6/2017				0.27	
2/9/2017					1.3
3/15/2017				0.25	1.3
4/11/2017					1.4
4/26/2017				0.31	1.5
8/10/2017				0.37	1.6
10/12/2017				0.35	1.5
3/29/2018				0.36	1.4
6/14/2018				0.56	1.4
10/4/2018				0.27	1.4
2/27/2019				0.054 (J)	
2/28/2019					1.4
4/3/2019				0.5	1.3
9/19/2019				0.42	1.3
2/5/2020					1.3
2/7/2020				0.25	
3/19/2020				0.057 (J)	1
9/22/2020				0.14	
9/23/2020					0.82
2/3/2021				0.15	
2/4/2021					0.91
3/8/2021			<0.1		
3/9/2021	0.092 (J)	1			
3/11/2021				0.16	
3/12/2021					0.98
4/7/2021	0.093 (J)	1.1			
4/8/2021			0.028 (J)		
8/26/2021	0.081 (J)	1.2	0.047 (J)	0.21	1
1/11/2022	0.045 (J)	1	0.028 (J)		
3/3/2022		0.71		0.19	1
3/4/2022	0.045 (J)		0.038 (J)		
6/6/2022	0.028 (J)	0.43			
6/7/2022			<0.1		
8/16/2022				0.21	
8/17/2022	0.043 (J)		<0.1		0.9
8/18/2022		0.24			
2/15/2023	0.048 (J)	0.63	<0.1		0.85
2/16/2023				0.14	
Mean	0.05938	0.7888	0.06763	0.2598	1.289
Std. Dev.	0.02524	0.3415	0.03512	0.1245	0.306
Upper Lim.	0.0861	1.151	0.1	0.3233	1.445
Lower Lim.	0.03397	0.4268	0.028	0.1962	1.133

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001					<0.001
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						<0.001
7/20/2016	<0.001	<0.001	<0.001	<0.001		
9/14/2016	<0.001	<0.001	<0.001	0.00055 (J)		<0.001
11/10/2016				0.00047 (J)		<0.001
11/11/2016	<0.001	<0.001	<0.001			
1/24/2017						<0.001
1/27/2017		<0.001	<0.001	<0.001		
2/6/2017	<0.001					
2/8/2017					<0.001	
2/23/2017					<0.001	
3/14/2017						<0.001
3/15/2017	<0.001	<0.001	<0.001	<0.001		
3/17/2017					<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	
5/17/2017					<0.001	
6/7/2017					<0.001	
7/11/2017					<0.001	
8/9/2017				<0.001		<0.001
8/10/2017	<0.001	<0.001	<0.001			
3/29/2018		<0.001	<0.001	<0.001	<0.001	
3/30/2018	<0.001					<0.001
2/27/2019	0.00023 (J)	0.00058 (J)	<0.001	0.00068 (J)	<0.001	<0.001
4/3/2019		<0.001	<0.001	0.00047 (J)	<0.001	
4/4/2019	<0.001					<0.001
9/18/2019				0.00045 (J)	<0.001	<0.001
9/19/2019	0.00041 (J)	<0.001	<0.001			
2/5/2020	0.00016 (J)	<0.001	<0.001	0.00045 (J)	<0.001	
2/7/2020						<0.001
3/18/2020	0.00021 (J)	<0.001	<0.001			<0.001
3/19/2020				0.0006 (J)	0.00017 (J)	
9/23/2020	0.00013 (J)		<0.001			<0.001
9/24/2020		0.00037 (J)		<0.001	0.00018 (J)	
2/3/2021		<0.001	<0.001			
2/4/2021	0.00019 (J)			0.00038 (J)	0.00013 (J)	0.0003 (J)
3/11/2021	0.00032 (J)			0.00075 (J)	0.00031 (J)	
3/12/2021		0.00038 (J)	<0.001			<0.001
8/25/2021		0.00023 (J)	<0.001	0.00025 (J)	0.00041 (J)	
8/26/2021	0.00026 (J)					<0.001
3/3/2022	0.00025 (J)	<0.001		0.00023 (J)	0.00057 (J)	<0.001
3/4/2022			0.00033 (J)			
8/16/2022		<0.001				
8/17/2022						<0.001
8/18/2022			<0.001	0.0011		
8/19/2022	0.0003 (J)				0.00036 (J)	
2/15/2023						<0.001
2/16/2023	<0.001	<0.001	<0.001	0.00027 (J)	0.00024 (J)	
Mean	0.000641	0.0008838	0.0009681	0.0006976	0.0007319	0.0009667
Std. Dev.	0.0003898	0.0002517	0.0001462	0.0003047	0.0003609	0.0001528

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00023	0.00058	0.00033	0.00045	0.00031	0.0003

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-22	WGWC-23	WGWC-24
5/18/2016	<0.001	<0.001				
7/19/2016	<0.001					
7/20/2016		<0.001				
9/14/2016	<0.001	<0.001				
11/10/2016	<0.001	<0.001				
11/11/2016			<0.001			
1/20/2017		<0.001				
1/24/2017	<0.001					
2/6/2017			<0.001			
3/14/2017		<0.001				
3/15/2017	<0.001		<0.001			
4/11/2017			<0.001			
4/25/2017	<0.001	<0.001				
4/26/2017			<0.001			
6/7/2017			<0.001			
7/11/2017			<0.001			
8/9/2017	<0.001	<0.001				
8/10/2017			<0.001			
3/29/2018	<0.001		<0.001			
3/30/2018		<0.001				
2/26/2019		0.00033 (J)				
2/27/2019	0.00014 (J)					
2/28/2019			<0.001			
4/2/2019			<0.001			
4/4/2019	<0.001	<0.001				
9/18/2019	<0.001	<0.001	<0.001			
2/7/2020	<0.001	<0.001	<0.001			
3/18/2020	<0.001	0.0002 (J)				
5/4/2020			<0.001			
9/23/2020	<0.001	<0.001	<0.001			
2/3/2021			<0.001			
2/4/2021	0.00013 (J)	<0.001				
3/11/2021	<0.001	<0.001	<0.001			
8/25/2021	<0.001	<0.001				
8/26/2021			<0.001	0.00022 (J)	<0.001	0.0012
1/11/2022				0.00023 (J)	<0.001	0.00082 (J)
3/3/2022	<0.001		0.0003 (J)			0.00076 (J)
3/4/2022		<0.001		0.00036 (J)	<0.001	
6/6/2022					<0.001	0.00047 (J)
6/7/2022				<0.001		
8/16/2022		<0.001				
8/17/2022	<0.001		<0.001		<0.001	
8/18/2022						0.00032 (J)
8/19/2022				0.00037 (J)		
2/15/2023	<0.001			0.00023 (J)	0.0046	0.00056 (J)
2/16/2023		<0.001	<0.001			
Mean	0.0009176	0.00093	0.0009667	0.0004017	0.0016	0.0006883
Std. Dev.	0.0002602	0.000222	0.0001528	0.0003009	0.00147	0.0003112
Upper Lim.	0.001	0.001	0.001	0.001	0.0046	0.001116
Lower Lim.	0.00014	0.00033	0.0003	0.00022	0.001	0.0002609

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-8	WGWC-9
5/19/2016	<0.001	<0.001
7/20/2016	<0.001	<0.001
9/14/2016		<0.001
9/15/2016	<0.001	
11/14/2016	<0.001	
2/6/2017	<0.001	
2/9/2017		<0.001
3/15/2017	<0.001	<0.001
4/11/2017		<0.001
4/26/2017	<0.001	<0.001
8/10/2017	<0.001	<0.001
3/29/2018	<0.001	<0.001
2/27/2019	0.00017 (J)	
2/28/2019		0.00014 (J)
4/3/2019	<0.001	<0.001
9/19/2019	<0.001	<0.001
2/5/2020		<0.001
2/7/2020	<0.001	
3/19/2020	0.00016 (J)	<0.001
9/22/2020	0.00013 (J)	
9/23/2020		<0.001
2/3/2021	0.00013 (J)	
2/4/2021		<0.001
3/11/2021	<0.001	
3/12/2021		<0.001
8/26/2021	0.00014 (J)	<0.001
3/3/2022	0.00052 (J)	<0.001
8/16/2022	0.00041 (J)	
8/17/2022		<0.001
2/15/2023		<0.001
2/16/2023	0.00029 (J)	
Mean	0.0007119	0.000959
Std. Dev.	0.0003865	0.0001877
Upper Lim.	0.001	0.001
Lower Lim.	0.00017	0.00014

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.032					<0.005
5/19/2016		<0.005	<0.05	<0.005		
7/19/2016						0.0036 (J)
7/20/2016	0.021	<0.005	0.0057	<0.005		
9/14/2016	0.02	<0.005	0.0077	<0.005		<0.005
11/10/2016				0.0038 (J)		0.0064
11/11/2016	0.017	<0.005	0.007			
1/24/2017						0.0075
1/27/2017		<0.005	0.0074	<0.005		
2/6/2017	0.016					
2/8/2017					0.0039 (J)	
2/23/2017					<0.005	
3/14/2017						0.0057
3/15/2017	0.014	<0.005	0.0077	<0.005		
3/17/2017					<0.005	
4/11/2017					<0.005	
4/25/2017						0.0059
4/26/2017	0.011	<0.005	0.0011	<0.005	<0.005	
5/17/2017					0.0033 (J)	
6/7/2017					<0.005	
7/11/2017					<0.005	
8/9/2017				<0.005		0.0068
8/10/2017	0.011	<0.005	0.0064			
3/29/2018		0.0018 (J)	0.01	0.0022 (J)	0.0025 (J)	
3/30/2018	0.016					0.0077
6/14/2018	0.0084	0.0011 (J)	0.0062	0.0018 (J)	0.0018 (J)	0.0052
10/3/2018						0.006
10/4/2018	0.0085	0.0014 (J)	0.0066	0.0025 (J)	0.0016 (J)	
2/27/2019	0.0068	<0.005	0.0068	<0.005	<0.005	0.0055
4/3/2019		<0.005	0.0075	<0.005	0.0015 (J)	
4/4/2019	0.0059					0.0054
9/18/2019				<0.005	<0.005	0.0054
9/19/2019	0.0075	<0.005	0.0067			
2/5/2020	0.0061	<0.005	0.0063	<0.005	<0.005	
2/7/2020						0.0068
3/18/2020	0.0071	<0.005	0.0081			0.0086
3/19/2020				<0.005	<0.005	
9/23/2020	0.0054		0.007			0.0071
9/24/2020		<0.005		<0.005	<0.005	
2/3/2021		<0.005	0.0075			
2/4/2021	0.0049 (J)			<0.005	<0.005	0.0086
3/11/2021	0.0051			0.0037 (J)	0.0035 (J)	
3/12/2021		<0.005	0.0089			0.0096
8/25/2021		<0.005	0.0061	<0.005	<0.005	
8/26/2021	0.0044 (J)					0.0059
3/3/2022	0.0038 (J)	<0.005		0.0018 (J)	0.0019 (J)	0.0068
3/4/2022			0.0061			
8/16/2022		0.00092 (J)				
8/17/2022						0.0073
8/18/2022			0.0063	0.0024 (J)		
8/19/2022	0.0049 (J)				0.0021 (J)	
2/15/2023						0.0062

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	0.0025 (J)	<0.005	0.0036 (J)	<0.005	<0.005	
Mean	0.0104	0.004357	0.007465	0.00427	0.004004	0.006217
Std. Dev.	0.007152	0.001439	0.004191	0.00121	0.00138	0.001752
Upper Lim.	0.01296	0.005	0.0077	0.005	0.005	0.007134
Lower Lim.	0.006432	0.0018	0.0062	0.0037	0.0025	0.005301

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.05	<0.05				
7/19/2016	0.0091					
7/20/2016		0.0042 (J)				
9/14/2016	0.012	0.0058				
11/10/2016	0.013	0.0066				
11/11/2016			0.045			
1/20/2017		0.0044 (J)				
1/24/2017	0.011					
2/6/2017			0.05			
3/14/2017		0.0048 (J)				
3/15/2017	0.01		0.052			
4/11/2017			0.048			
4/25/2017	0.0081	0.0049 (J)				
4/26/2017			0.044			
6/7/2017			0.047			
7/11/2017			0.045			
8/9/2017	0.013	0.0067				
8/10/2017			0.056			
3/29/2018	0.015		0.072			
3/30/2018		0.0067				
6/14/2018	0.009	0.0046 (J)	0.048			
10/4/2018	0.012	0.005	0.062			
2/26/2019		0.0063				
2/27/2019	0.0075					
2/28/2019			0.045			
4/2/2019			0.052			
4/4/2019	0.0077	0.0042 (J)				
9/18/2019	0.0056	0.0047 (J)	0.052			
2/7/2020	0.0053	0.0045 (J)	0.044			
3/18/2020	0.0057	0.0054				
5/4/2020			0.049			
9/23/2020	0.0059	0.0056	0.056			
2/3/2021			0.06			
2/4/2021	0.0051	0.0047 (J)				
3/8/2021				0.11		
3/9/2021					0.022	0.011
3/11/2021	0.005	0.0049 (J)	0.051			
4/7/2021					0.031	
4/8/2021				0.11		0.0081
8/25/2021	0.0046 (J)	0.0048 (J)				
8/26/2021			0.057	0.11	0.032	0.011
1/11/2022					0.038	0.011
1/12/2022				0.15		
3/3/2022	0.0041 (J)		0.057		0.044	
3/4/2022		0.0042 (J)		0.14		0.011
6/6/2022					0.051	
6/7/2022				0.12		0.0093
8/16/2022		0.0053			0.059	
8/17/2022	0.0042 (J)		0.056			
8/18/2022				0.11		
8/19/2022						0.01
2/15/2023	0.0044 (J)					0.009

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
2/16/2023						
Mean	0.008796	0.0026 (J)	0.053	0.14	0.053	0.01005
Std. Dev.	0.00484	0.005909	0.05222	0.1238	0.04125	0.001139
Upper Lim.	0.01064	0.004269	0.006769	0.01685	0.01269	0.001139
Lower Lim.	0.006205	0.0058	0.05576	0.15	0.0547	0.011
		0.0045	0.04868	0.11	0.0278	0.0081

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016				0.0215	0.0335
7/20/2016				0.026	0.024
9/14/2016					0.039
9/15/2016				0.057	
11/14/2016				0.017	
2/6/2017				0.012	
2/9/2017					0.04
3/15/2017				0.014	0.035
4/11/2017					0.034
4/26/2017				0.0091	0.029
8/10/2017				0.013	0.038
3/29/2018				0.018	0.048
6/14/2018				0.015	0.034
10/4/2018				0.013	0.039
2/27/2019				0.014	
2/28/2019					0.037
4/3/2019				0.015	0.035
9/19/2019				0.014	0.036
2/5/2020					0.034
2/7/2020				0.014	
3/19/2020				0.015	0.039
9/22/2020				0.013	
9/23/2020					0.033
2/3/2021				0.014	
2/4/2021					0.035
3/8/2021			0.0046 (J)		
3/9/2021	<0.005	0.0084			
3/11/2021				0.013	
3/12/2021					0.034
4/7/2021	<0.005	0.0077			
4/8/2021			0.0044 (J)		
8/26/2021	<0.005	0.0076	0.0044 (J)	0.013	0.03
1/11/2022	<0.005	0.0091	0.0043 (J)		
3/3/2022		0.0066		0.014	0.03
3/4/2022	0.0015 (J)		0.0035 (J)		
6/6/2022	0.002 (J)	0.0044 (J)			
6/7/2022			0.004 (J)		
8/16/2022				0.014	
8/17/2022	0.0017 (J)		0.0036 (J)		0.028
8/18/2022		0.0036 (J)			
2/15/2023	<0.005	0.0068	0.0031 (J)		0.033
2/16/2023				0.01	
Mean	0.003775	0.006775	0.003988	0.01646	0.03467
Std. Dev.	0.001696	0.001902	0.000533	0.009504	0.004879
Upper Lim.	0.005	0.008791	0.004552	0.017	0.03723
Lower Lim.	0.0015	0.004759	0.003423	0.013	0.03212

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0002					<0.0002
5/19/2016		<0.0002	<0.0002	<0.0002		
7/19/2016						9.3E-05 (J)
7/20/2016	8.2E-05 (J)	8.2E-05 (J)	0.00011 (J)	8.1E-05 (J)		
9/14/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
11/10/2016				8.3E-05 (J)		8.5E-05 (J)
11/11/2016	8.5E-05 (J)	0.00011 (J)	7.9E-05 (J)			
1/24/2017						<0.0002
1/27/2017		<0.0002	<0.0002	<0.0002		
2/6/2017	8.3E-05 (J)					
2/8/2017					<0.0002	
2/23/2017					<0.0002	
3/14/2017						7.1E-05 (J)
3/15/2017	0.00013 (J)	<0.0002	0.00018 (J)	<0.0002		
3/17/2017					0.00013 (J)	
4/11/2017					<0.0002	
4/25/2017						<0.0002
4/26/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
5/17/2017					<0.0002	
6/7/2017					<0.0002	
7/11/2017					<0.0002	
8/9/2017				<0.0002		<0.0002
8/10/2017	<0.0002	<0.0002	<0.0002			
3/29/2018		<0.0002	0.00011 (J)	<0.0002	<0.0002	
3/30/2018	<0.0002					8.6E-05 (J)
6/14/2018	<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	
2/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/7/2020						<0.0002
3/18/2020	<0.0002	<0.0002	<0.0002			<0.0002
3/19/2020				<0.0002	<0.0002	
9/23/2020	<0.0002		<0.0002			<0.0002
9/24/2020		<0.0002		<0.0002	<0.0002	
2/3/2021		<0.0002	<0.0002			
2/4/2021	<0.0002			<0.0002	<0.0002	<0.0002
3/3/2022	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/4/2022			<0.0002			
8/16/2022		<0.0002				
8/17/2022						<0.0002
8/18/2022			<0.0002	<0.0002		
8/19/2022	<0.0002				<0.0002	
2/15/2023						<0.0002
2/16/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Mean	0.0001779	0.0001891	0.0001831	0.0001876	0.0001963	0.0001755
Std. Dev.	4.5E-05	3.312E-05	3.787E-05	3.721E-05	1.606E-05	4.884E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00013	0.00011	0.00018	8.3E-05	0.00013	9.3E-05

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.0002	<0.0002				
7/19/2016	<0.0002					
7/20/2016		7.4E-05 (J)				
9/14/2016	<0.0002	<0.0002				
11/10/2016	0.00012 (J)	<0.0002				
11/11/2016			7.6E-05 (J)			
1/20/2017		<0.0002				
1/24/2017	7E-05 (J)					
2/6/2017			0.00012 (J)			
3/14/2017		<0.0002				
3/15/2017	<0.0002		<0.0002			
4/11/2017			<0.0002			
4/25/2017	0.00019 (J)	<0.0002				
4/26/2017			<0.0002			
6/7/2017			<0.0002			
7/11/2017			<0.0002			
8/9/2017	<0.0002	<0.0002				
8/10/2017			<0.0002			
3/29/2018	<0.0002		<0.0002			
3/30/2018		<0.0002				
6/14/2018	<0.0002	<0.0002	<0.0002			
10/4/2018	<0.0002	<0.0002	<0.0002			
2/26/2019		<0.0002				
2/27/2019	<0.0002					
2/28/2019			<0.0002			
2/7/2020	<0.0002	<0.0002	<0.0002			
3/18/2020	<0.0002	<0.0002				
5/4/2020			<0.0002			
9/23/2020	<0.0002	<0.0002	<0.0002			
2/3/2021			<0.0002			
2/4/2021	<0.0002	<0.0002				
8/26/2021				0.00033	0.0002	0.00018 (J)
1/11/2022					<0.0002	<0.0002
1/12/2022				<0.0002		
3/3/2022	<0.0002		<0.0002		<0.0002	
3/4/2022		<0.0002		<0.0002		<0.0002
6/6/2022					<0.0002	
6/7/2022				<0.0002		<0.0002
8/16/2022		<0.0002			<0.0002	
8/17/2022	<0.0002		<0.0002			
8/18/2022				<0.0002		
8/19/2022						<0.0002
2/15/2023	<0.0002					<0.0002
2/16/2023		<0.0002	<0.0002	<0.0002	<0.0002	
Mean	0.0001884	0.0001934	0.0001893	0.0002217	0.0002	0.0001967
Std. Dev.	3.404E-05	2.891E-05	3.299E-05	5.307E-05	2.1E-12	8.165E-06
Upper Lim.	0.0002	0.0002	0.0002	0.00033	0.0002	0.0002
Lower Lim.	0.00019	7.4E-05	0.00012	0.0002	0.0002	0.00018

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016				<0.0002	<0.0002
7/20/2016				<0.0002	<0.0002
9/14/2016					<0.0002
9/15/2016				0.00011 (J)	
11/14/2016				<0.0002	
2/6/2017				7.8E-05 (J)	
2/9/2017					<0.0002
3/15/2017				0.00013 (J)	0.00013 (J)
4/11/2017					<0.0002
4/26/2017				<0.0002	<0.0002
8/10/2017				<0.0002	<0.0002
3/29/2018				<0.0002	<0.0002
6/14/2018				<0.0002	<0.0002
10/4/2018				<0.0002	<0.0002
2/27/2019				<0.0002	
2/28/2019					<0.0002
2/5/2020					<0.0002
2/7/2020				<0.0002	
3/19/2020				<0.0002	<0.0002
9/22/2020				<0.0002	
9/23/2020					<0.0002
2/3/2021				<0.0002	
2/4/2021					<0.0002
8/26/2021	0.00022	0.00026	0.0019		
1/11/2022	<0.0002	<0.0002	<0.0002		
3/3/2022		<0.0002		<0.0002	<0.0002
3/4/2022	<0.0002		<0.0002		
6/6/2022	<0.0002	<0.0002			
6/7/2022			<0.0002		
8/16/2022				<0.0002	
8/17/2022	<0.0002		<0.0002		<0.0002
8/18/2022		<0.0002			
2/15/2023	<0.0002	<0.0002	<0.0002		<0.0002
2/16/2023				<0.0002	
Mean	0.0002033	0.00021	0.0004833	0.0001852	0.0001963
Std. Dev.	8.165E-06	2.449E-05	0.000694	3.628E-05	1.606E-05
Upper Lim.	0.00022	0.00026	0.0019	0.0002	0.0002
Lower Lim.	0.0002	0.0002	0.0002	0.00013	0.00013

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.015					0.0153
5/19/2016		<0.015	<0.015	0.00491 (J)		
7/19/2016						0.0093 (J)
7/20/2016	<0.015	<0.015	0.00095 (J)	0.0025 (J)		
9/14/2016	0.00091 (J)	<0.015	0.0009 (J)	0.0028 (J)		0.012 (J)
11/10/2016				0.0016 (J)		0.0065 (J)
11/11/2016	<0.015	<0.015	<0.015			
1/24/2017						0.0049 (J)
1/27/2017		<0.015	<0.015	0.0023 (J)		
2/6/2017	<0.015					
2/8/2017					<0.015	
2/23/2017					<0.015	
3/14/2017						0.0034 (J)
3/15/2017	<0.015	<0.015	<0.015	0.0022 (J)		
3/17/2017					<0.015	
4/11/2017					<0.015	
4/25/2017						0.004 (J)
4/26/2017	<0.015	<0.015	<0.015	0.0019 (J)	<0.015	
5/17/2017					<0.015	
6/7/2017					0.001 (J)	
7/11/2017					<0.015	
8/9/2017				0.0028 (J)		0.0042 (J)
8/10/2017	0.00093 (J)	0.0011 (J)	0.0046 (J)			
3/29/2018		<0.015	<0.015	0.0028 (J)	<0.015	
3/30/2018	<0.015					0.0049 (J)
6/14/2018	<0.015	<0.015	<0.015	0.0018 (J)	<0.015	0.0056 (J)
10/3/2018						0.0041 (J)
10/4/2018	<0.015	<0.015	<0.015	<0.015	<0.015	
2/27/2019	<0.015	<0.015	0.00063 (J)	0.0019 (J)	<0.015	0.0061
4/3/2019		<0.015	<0.015	<0.015	<0.015	
4/4/2019	<0.015					0.0039 (J)
9/18/2019				0.0021 (J)	<0.015	0.0052
9/19/2019	<0.015	<0.015	0.00073 (J)			
2/5/2020	<0.015	<0.015	<0.015	0.0012 (J)	<0.015	
2/7/2020						0.0024 (J)
3/18/2020	<0.015	<0.015	<0.015			0.002 (J)
3/19/2020				0.0018 (J)	<0.015	
9/23/2020	<0.015		<0.015			0.0031 (J)
9/24/2020		0.0017 (J)		<0.015	<0.015	
2/3/2021		<0.015	<0.015			
2/4/2021	<0.015			0.0012 (J)	<0.015	0.0022 (J)
3/11/2021	<0.015			0.0013 (J)	<0.015	
3/12/2021		<0.015	0.00062 (J)			0.0019 (J)
8/25/2021		<0.015	<0.015	0.00092 (J)	<0.015	
8/26/2021	<0.015					0.0029 (J)
3/3/2022	<0.015	<0.015		0.00094 (J)	<0.015	0.0025 (J)
3/4/2022			<0.015			
8/16/2022		<0.015				
8/17/2022						0.0025 (J)
8/18/2022			<0.015	0.00087 (J)		
8/19/2022	<0.015				<0.015	
2/15/2023						0.0027 (J)

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	<0.015	<0.015	<0.015	0.0013 (J)	<0.015	
Mean	0.01378	0.01382	0.01145	0.00268	0.01439	0.004852
Std. Dev.	0.004057	0.003919	0.00615	0.0021	0.002919	0.003318
Upper Lim.	0.015	0.015	0.015	0.003006	0.015	0.005821
Lower Lim.	0.00093	0.0017	0.0046	0.001529	0.001	0.003115

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-9
5/18/2016	0.00526 (J)					
5/19/2016						0.00762 (J)
7/20/2016	0.0066 (J)					0.0084 (J)
9/14/2016	0.0081 (J)					0.0071 (J)
11/10/2016	0.0076 (J)					
11/11/2016		<0.015				
1/20/2017	0.0094 (J)					
2/6/2017		0.001 (J)				
2/9/2017						0.018
3/14/2017	0.0044 (J)					
3/15/2017		<0.015				0.0057 (J)
4/11/2017		<0.015				0.0047 (J)
4/25/2017	0.0074 (J)					
4/26/2017		<0.015				0.004 (J)
6/7/2017		0.0015 (J)				
7/11/2017		<0.015				
8/9/2017	0.0066 (J)					
8/10/2017		0.0016 (J)				0.0046 (J)
3/29/2018		0.0012 (J)				0.0048 (J)
3/30/2018	0.0024 (J)					
6/14/2018	0.0026 (J)	0.0014 (J)				0.0046 (J)
10/4/2018	0.00085 (J)	<0.015				0.003 (J)
2/26/2019	0.0032 (J)					
2/28/2019		0.0013 (J)				0.0053
4/2/2019		<0.015				
4/3/2019						0.0026 (J)
4/4/2019	0.002 (J)					
9/18/2019	0.0026 (J)	0.0011 (J)				
9/19/2019						0.0048 (J)
2/5/2020						0.0044 (J)
2/7/2020	0.0025 (J)	0.0014 (J)				
3/18/2020	0.0024 (J)					
3/19/2020						0.0042 (J)
5/4/2020		0.0013 (J)				
9/23/2020	0.0027 (J)	0.0013 (J)				0.0027 (J)
2/3/2021		0.0013 (J)				
2/4/2021	0.0025 (J)					0.003 (J)
3/11/2021	0.0022 (J)	0.0012 (J)				
3/12/2021						0.003 (J)
8/25/2021	0.0022 (J)					
8/26/2021		0.0011 (J)	0.00079 (J)	0.044	<0.015	0.0028 (J)
1/11/2022				0.037	<0.015	
1/12/2022			0.00062 (J)			
3/3/2022		0.0013 (J)		0.036		0.0027 (J)
3/4/2022	0.0021 (J)		<0.015		0.00084 (J)	
6/6/2022				0.032		
6/7/2022			<0.015		<0.015	
8/16/2022	0.0024 (J)			0.042		
8/17/2022		0.001 (J)				0.0027 (J)
8/18/2022			<0.015			
8/19/2022					<0.015	
2/15/2023					<0.015	0.0025 (J)

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-9
2/16/2023	0.0022 (J)	0.0014 (J)	<0.015	0.034		
Mean	0.003922	0.005452	0.01023	0.0375	0.01264	0.004923
Std. Dev.	0.002443	0.006459	0.007382	0.004637	0.005781	0.003299
Upper Lim.	0.004512	0.015	0.015	0.04387	0.015	0.005541
Lower Lim.	0.00241	0.0012	0.00062	0.03113	0.00084	0.003362

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	<0.005				<0.005	0.00735
5/19/2016		<0.005	<0.005			
7/19/2016					<0.005	0.0075
7/20/2016	<0.005	<0.005	<0.005			
9/14/2016	<0.005	<0.005	<0.005		<0.005	0.0091
11/10/2016					<0.005	0.0056
11/11/2016	<0.005	<0.005	<0.005			
1/24/2017					<0.005	0.012
1/27/2017		<0.005	<0.005			
2/6/2017	<0.005					
2/8/2017				<0.005		
2/23/2017				<0.005		
3/14/2017					<0.005	
3/15/2017	<0.005	<0.005	<0.005			0.012
3/17/2017				<0.005		
4/11/2017				<0.005		
4/25/2017					<0.005	0.013
4/26/2017	<0.005	<0.005	<0.005	<0.005		
5/17/2017				<0.005		
6/7/2017				<0.005		
7/11/2017				<0.005		
8/9/2017					<0.005	0.016
8/10/2017	0.00031 (J)	0.00049 (J)	0.0021			
3/29/2018		<0.005	<0.005	0.0003 (J)		0.016
3/30/2018	<0.005				<0.005	
6/14/2018	<0.005	<0.005	<0.005	<0.005	0.0005 (J)	0.012
10/3/2018					<0.005	
10/4/2018	<0.005	<0.005	<0.005	<0.005		0.013
2/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	0.0081
4/3/2019		<0.005	<0.005	<0.005		
4/4/2019	<0.005				<0.005	0.0091
9/18/2019				<0.005	<0.005	0.0044 (J)
9/19/2019	<0.005	<0.005	<0.005			
2/5/2020	<0.005	<0.005	<0.005	<0.005		
2/7/2020					<0.005	0.0036 (J)
3/18/2020	<0.005	<0.005	<0.005		<0.005	0.0046 (J)
3/19/2020				<0.005		
9/23/2020	<0.005		<0.005		<0.005	0.0028 (J)
9/24/2020		<0.005		<0.005		
2/3/2021		<0.005	<0.005			
2/4/2021	<0.005			<0.005	<0.005	0.0023 (J)
3/11/2021	<0.005			<0.005		0.0023 (J)
3/12/2021		<0.005	<0.005		<0.005	
8/25/2021		<0.005	<0.005	<0.005		0.0019 (J)
8/26/2021	<0.005				<0.005	
3/3/2022	<0.005	<0.005		<0.005	<0.005	0.0018 (J)
3/4/2022			<0.005			
8/16/2022		<0.005				
8/17/2022					<0.005	<0.005
8/18/2022			<0.005			
8/19/2022	<0.005			<0.005		
2/15/2023					<0.005	0.0019 (J)

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-14A	WGWC-15	WGWC-16
2/16/2023	<0.005	<0.005	<0.005	<0.005		
Mean	0.004796	0.004804	0.004874	0.004796	0.004804	0.007341
Std. Dev.	0.0009779	0.0009404	0.0006047	0.00098	0.0009383	0.004786
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.009844
Lower Lim.	0.00031	0.00049	0.0021	0.0003	0.0005	0.004838

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-19	WGWC-20	WGWC-22	WGWC-23	WGWC-24	WGWC-8
5/19/2016						0.00518
7/20/2016						0.0038
9/15/2016						0.0034
11/11/2016	<0.005					
11/14/2016						0.0033
2/6/2017	<0.005					0.0033
3/15/2017	<0.005					0.003
4/11/2017	<0.005					
4/26/2017	<0.005					0.0032
6/7/2017	<0.005					
7/11/2017	<0.005					
8/10/2017	0.00036 (J)					0.0031
3/29/2018	<0.005					0.0034
6/14/2018	<0.005					0.0031
10/4/2018	<0.005					0.0033
2/27/2019						0.0035
2/28/2019	<0.005					
4/2/2019	<0.005					
4/3/2019						0.0031
9/18/2019	<0.005					
9/19/2019						0.0021 (J)
2/7/2020	<0.005					0.0048 (J)
3/19/2020						0.0037 (J)
5/4/2020	<0.005					
9/22/2020						0.0039 (J)
9/23/2020	<0.005					
2/3/2021	<0.005					0.0036 (J)
3/11/2021	<0.005					0.0038 (J)
8/26/2021	<0.005	0.0016 (J)	0.0049 (J)	0.002 (J)	<0.005	0.0037 (J)
1/11/2022			0.0065	0.0024 (J)	<0.005	
1/12/2022		<0.005				
3/3/2022	<0.005				0.00077 (J)	0.0038 (J)
3/4/2022		0.0014 (J)	0.0072	0.002 (J)		
6/6/2022				0.0018 (J)	<0.005	
6/7/2022		0.0014 (J)	0.0047 (J)			
8/16/2022						0.0075
8/17/2022	<0.005			0.0013 (J)		
8/18/2022		0.0027 (J)			<0.005	
8/19/2022			0.0035 (J)			
2/15/2023			0.0077	0.0026 (J)	<0.005	
2/16/2023	<0.005	0.0017 (J)				0.0033 (J)
Mean	0.004798	0.0023	0.00575	0.002017	0.004295	0.00369
Std. Dev.	0.0009675	0.001409	0.001634	0.0004579	0.001727	0.001026
Upper Lim.	0.005	0.005	0.007995	0.002646	0.005	0.0038
Lower Lim.	0.00036	0.0014	0.003505	0.001388	0.00077	0.0032

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-9
5/19/2016	0.00228
7/20/2016	0.0016
9/14/2016	0.0024
2/9/2017	0.0023
3/15/2017	0.0031
4/11/2017	0.0023
4/26/2017	0.0019
8/10/2017	0.0021
3/29/2018	0.0021
6/14/2018	0.0025
10/4/2018	0.002
2/28/2019	0.0027
4/3/2019	0.0019
9/19/2019	0.0026 (J)
2/5/2020	0.0033 (J)
3/19/2020	0.0033 (J)
9/23/2020	0.0029 (J)
2/4/2021	0.003 (J)
3/12/2021	0.0034 (J)
8/26/2021	0.0028 (J)
3/3/2022	0.0021 (J)
8/17/2022	0.0022 (J)
2/15/2023	0.0037 (J)
Mean	0.002543
Std. Dev.	0.0005595
Upper Lim.	0.002835
Lower Lim.	0.00225

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-14A	WGWC-16	WGWC-19	WGWC-22
5/18/2016	<0.001			<0.001		
5/19/2016		<0.001				
7/19/2016				8.5E-05 (J)		
7/20/2016	<0.001	<0.001				
9/14/2016	<0.001	<0.001		0.00017 (J)		
11/10/2016				0.00017 (J)		
11/11/2016	<0.001	<0.001			<0.001	
1/24/2017				0.00023 (J)		
1/27/2017		<0.001				
2/6/2017	<0.001				<0.001	
2/8/2017			0.00011 (J)			
2/23/2017			0.00012 (J)			
3/15/2017	<0.001	<0.001		0.00021 (J)	<0.001	
3/17/2017			<0.001			
4/11/2017			<0.001		<0.001	
4/25/2017				0.00024 (J)		
4/26/2017	<0.001	<0.001	<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				0.0002 (J)		
8/10/2017	<0.001	<0.001			<0.001	
3/29/2018		<0.001	0.0002 (J)	0.00019 (J)	<0.001	
3/30/2018	8.5E-05 (J)					
6/14/2018	<0.001	<0.001	0.00014 (J)	0.00017 (J)	<0.001	
10/4/2018	<0.001	<0.001	0.00013 (J)	0.00015 (J)	<0.001	
2/27/2019	<0.001	<0.001	0.00016 (J)	0.00015 (J)		
2/28/2019					<0.001	
4/2/2019					<0.001	
4/3/2019		<0.001	0.00012 (J)			
4/4/2019	<0.001			9.5E-05 (J)		
9/18/2019			<0.001	<0.001	<0.001	
9/19/2019	<0.001	<0.001				
2/5/2020	<0.001	<0.001	0.00022 (J)			
2/7/2020				<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	
9/24/2020		<0.001	<0.001			
2/3/2021		0.00016 (J)			0.00018 (J)	
2/4/2021	<0.001		0.00021 (J)	<0.001		
3/11/2021	<0.001		0.00019 (J)	<0.001	<0.001	
3/12/2021		<0.001				
8/25/2021		<0.001	<0.001	<0.001		
8/26/2021	<0.001				<0.001	<0.001
1/11/2022						<0.001
3/3/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
3/4/2022						0.00047 (J)
6/7/2022						<0.001
8/16/2022		<0.001				
8/17/2022				<0.001	<0.001	

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-14A	WGWC-16	WGWC-19	WGWC-22
8/19/2022	<0.001		<0.001			<0.001
2/15/2023				<0.001		<0.001
2/16/2023	<0.001	<0.001	<0.001		<0.001	
Mean	0.0009602	0.0009635	0.0005987	0.0005678	0.0009643	0.0009117
Std. Dev.	0.0001908	0.0001752	0.0004294	0.0004244	0.000171	0.0002164
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	8.5E-05	0.00016	0.00016	0.00017	0.00018	0.00047

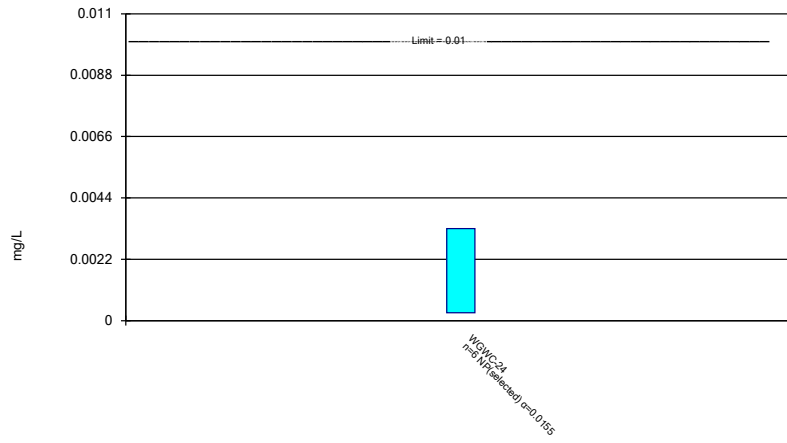
Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24
8/26/2021	0.00072 (J)
1/11/2022	0.00062 (J)
3/3/2022	0.0006 (J)
6/6/2022	0.00052 (J)
8/18/2022	0.0003 (J)
2/15/2023	0.00045 (J)
Mean	0.000535
Std. Dev.	0.0001472
Upper Lim.	0.0007372
Lower Lim.	0.0003328

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Arsenic Analysis Run 4/25/2023 10:10 AM View: Confidence Intervals - Nonparametric
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/25/2023 10:11 AM View: Confidence Intervals - Nonparametric
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24
8/26/2021	0.0033
1/11/2022	0.0017
3/3/2022	0.0029
6/6/2022	0.00054 (J)
8/18/2022	0.00028 (J)
2/15/2023	<0.001
Mean	0.00162
Std. Dev.	0.00125
Upper Lim.	0.0033
Lower Lim.	0.00028

FIGURE I.

Appendix IV Trend Test - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/20/2023, 12:59 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	WGWA-1 (bg)	-0.00008357	-162	-98	Yes	23	4.348	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-18 (bg)	-0.0003188	-105	-98	Yes	23	8.696	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-2 (bg)	-0.0001095	-178	-98	Yes	23	8.696	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-5 (bg)	-0.0003904	-96	-92	Yes	22	4.545	n/a	n/a	0.01	NP

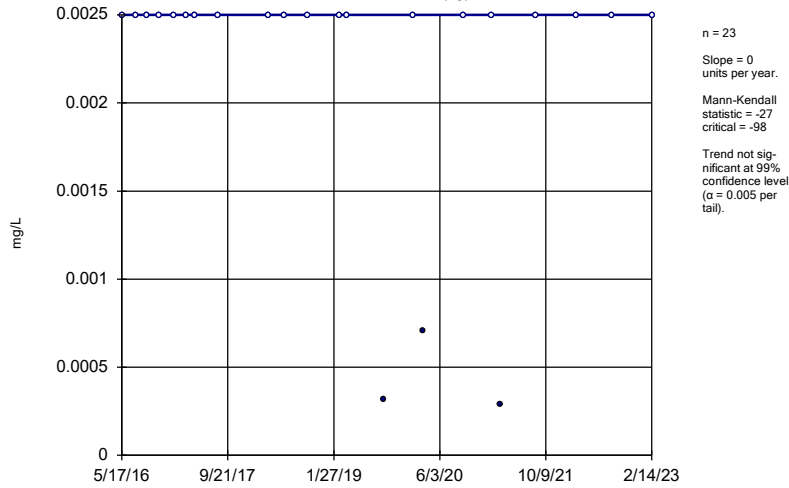
Appendix IV Trend Test - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/20/2023, 12:59 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	WGWA-1 (bg)	0	-27	-98	No	23	86.96	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-18 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-2 (bg)	0	-25	-98	No	23	86.96	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-3 (bg)	0	-23	-98	No	23	91.3	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-4 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-5 (bg)	0	-3	-92	No	22	95.45	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-6 (bg)	0	-4	-98	No	23	95.65	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-7 (bg)	0	-6	-98	No	23	95.65	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWC-20	0	0	14	No	6	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWC-24	-0.009	-10	-14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-1 (bg)	-0.00008357	-162	-98	Yes	23	4.348	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-18 (bg)	-0.0003188	-105	-98	Yes	23	8.696	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-2 (bg)	-0.0001095	-178	-98	Yes	23	8.696	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-3 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-4 (bg)	0	0	98	No	23	95.65	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-5 (bg)	-0.0003904	-96	-92	Yes	22	4.545	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-6 (bg)	0	-4	-98	No	23	82.61	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWA-7 (bg)	0	-23	-98	No	23	65.22	n/a	n/a	0.01	NP
Cobalt (mg/L)	WGWC-24	-0.08497	-11	-14	No	6	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-1 (bg)	-0.0001076	-69	-98	No	23	39.13	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-18 (bg)	0	6	98	No	23	86.96	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-2 (bg)	-0.00008441	-20	-98	No	23	4.348	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-3 (bg)	0	10	98	No	23	86.96	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-4 (bg)	0.00002309	13	98	No	23	4.348	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-5 (bg)	0	1	92	No	22	90.91	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-6 (bg)	0.000231	73	98	No	23	8.696	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-7 (bg)	0	6	98	No	23	95.65	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWC-19	0.001276	75	98	No	23	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWC-20	0.004002	7	21	No	8	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

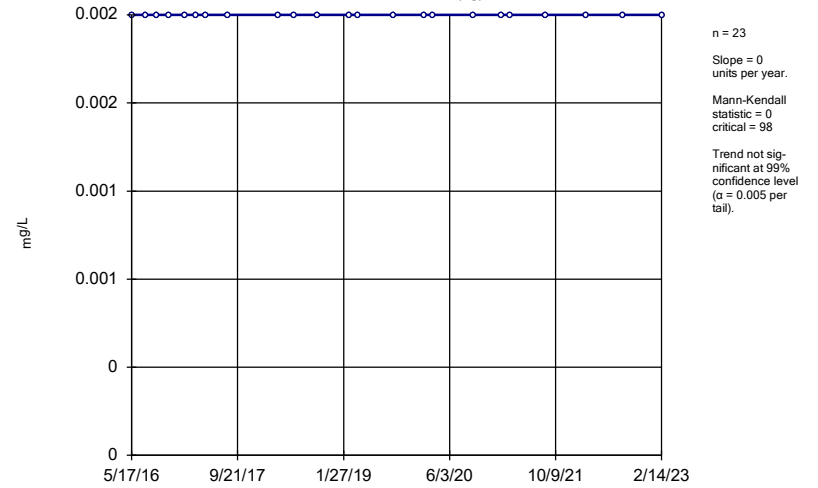
WGWA-1 (bg)



Constituent: Beryllium Analysis Run 4/20/2023 12:57 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

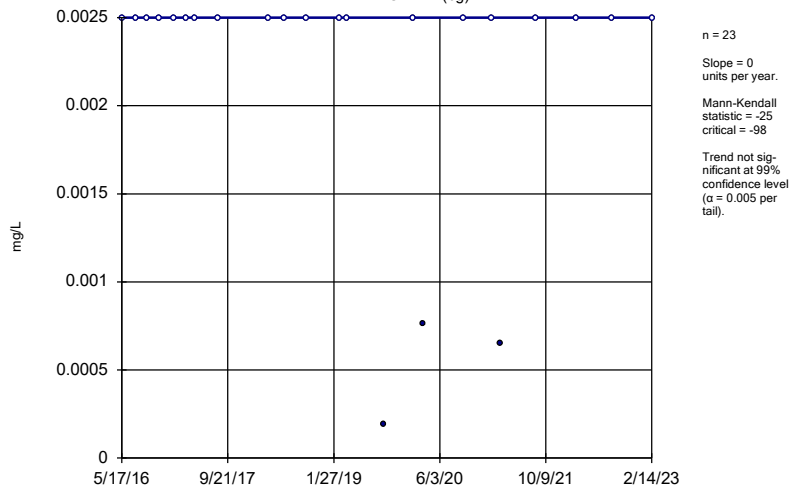
WGWA-18 (bg)



Constituent: Beryllium Analysis Run 4/20/2023 12:57 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

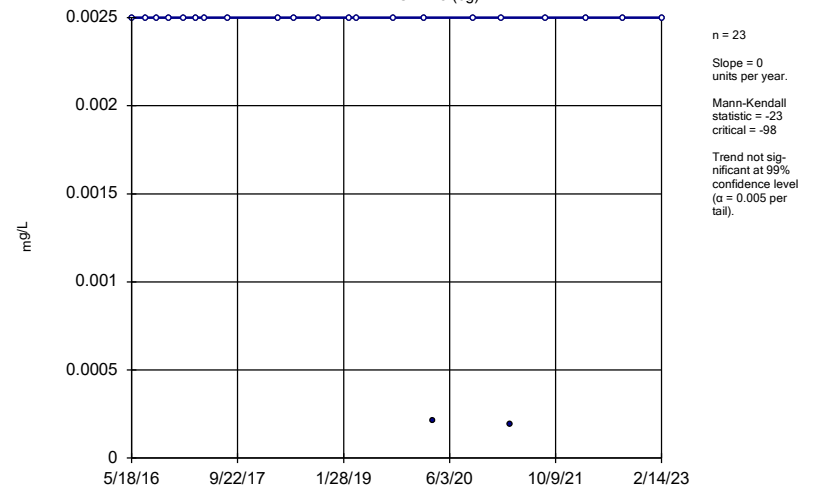
WGWA-2 (bg)



Constituent: Beryllium Analysis Run 4/20/2023 12:57 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

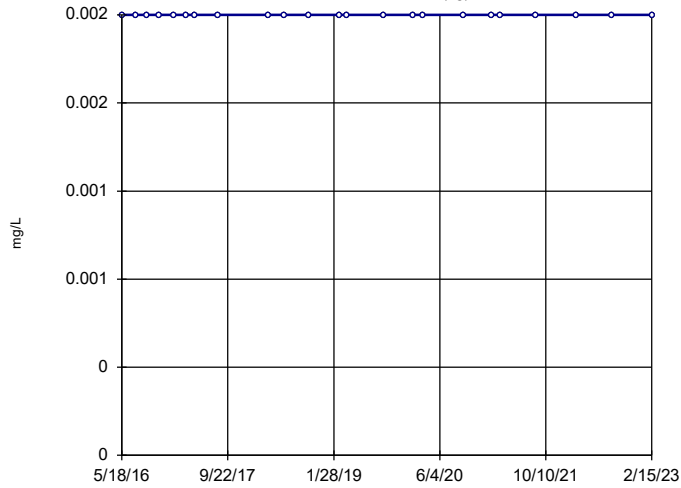
WGWA-3 (bg)



Constituent: Beryllium Analysis Run 4/20/2023 12:57 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-4 (bg)

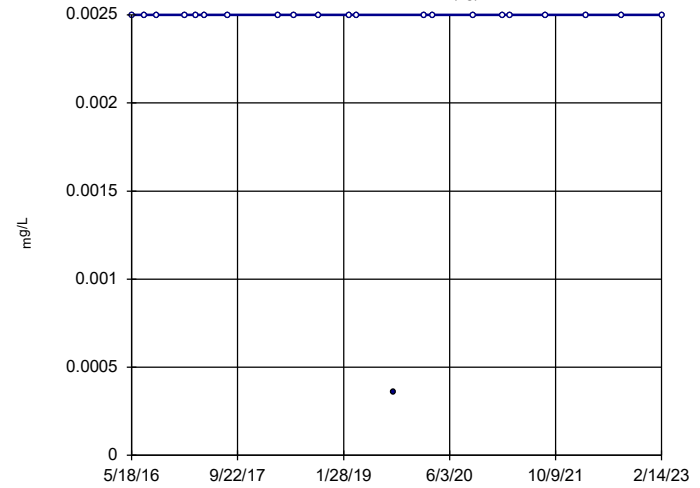


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 4/20/2023 12:57 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-5 (bg)

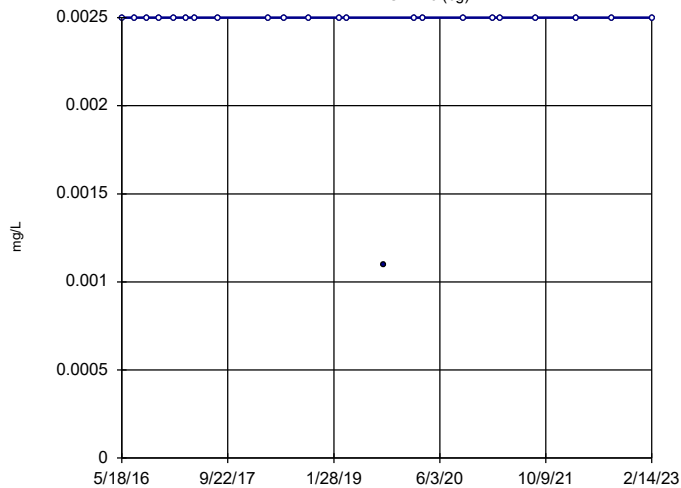


n = 22
Slope = 0
units per year.
Mann-Kendall
statistic = -3
critical = -92
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 4/20/2023 12:57 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-6 (bg)

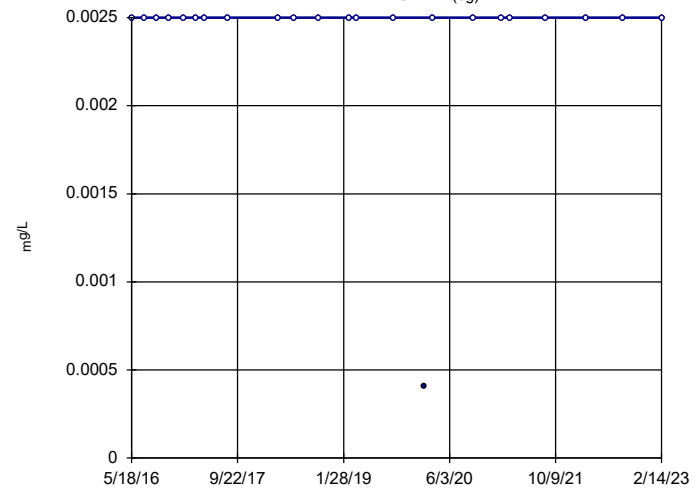


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = -4
critical = -98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 4/20/2023 12:57 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-7 (bg)

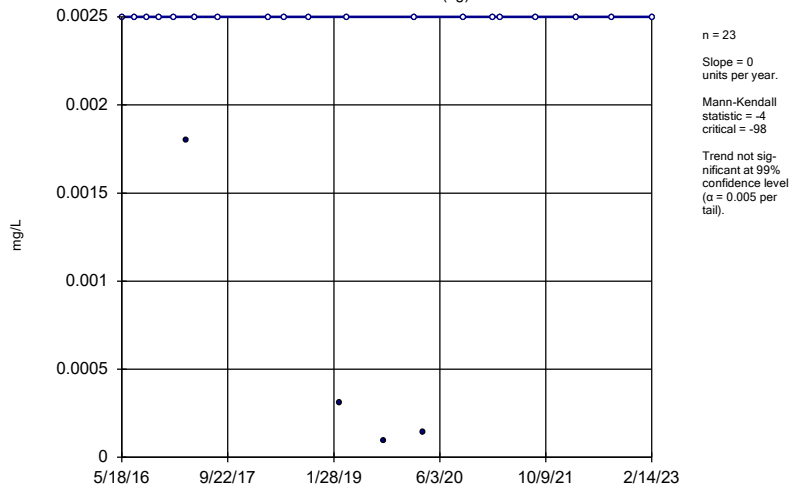


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = -6
critical = -98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 4/20/2023 12:57 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

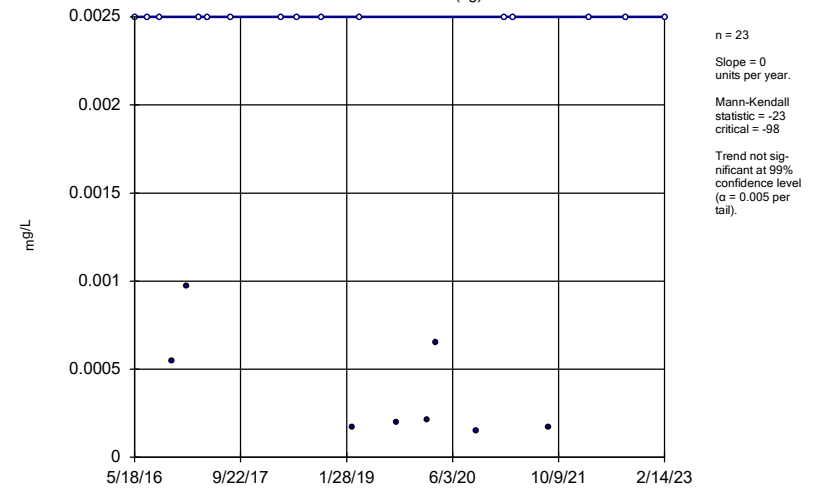
WGWA-6 (bg)



Constituent: Cobalt Analysis Run 4/20/2023 12:58 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

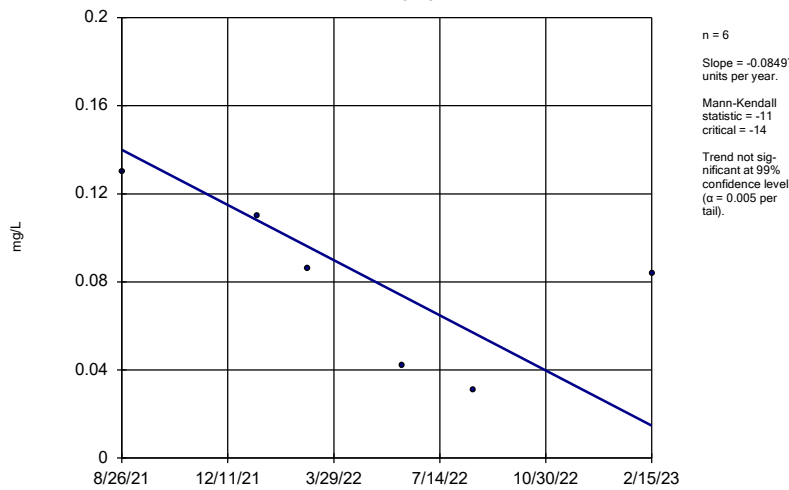
WGWA-7 (bg)



Constituent: Cobalt Analysis Run 4/20/2023 12:58 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

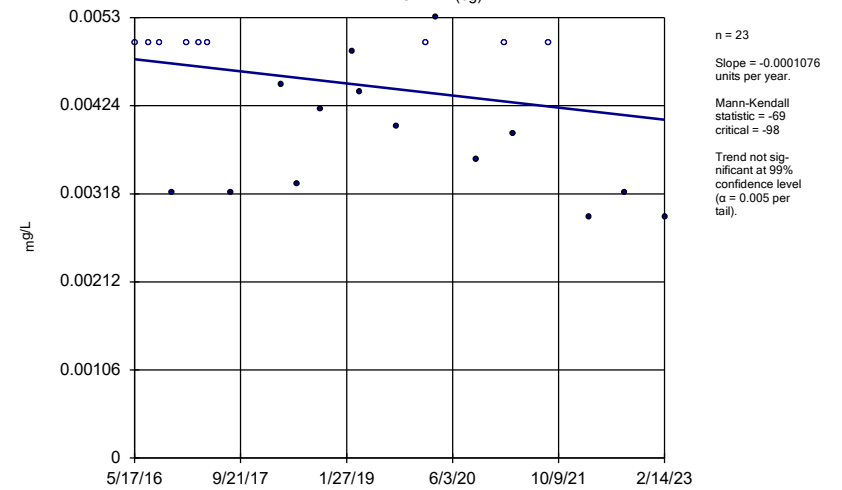
WGWC-24



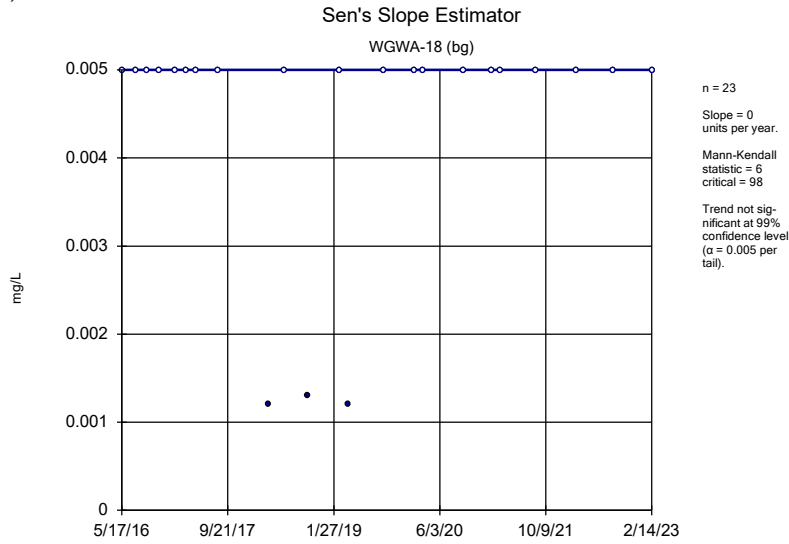
Constituent: Cobalt Analysis Run 4/20/2023 12:58 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

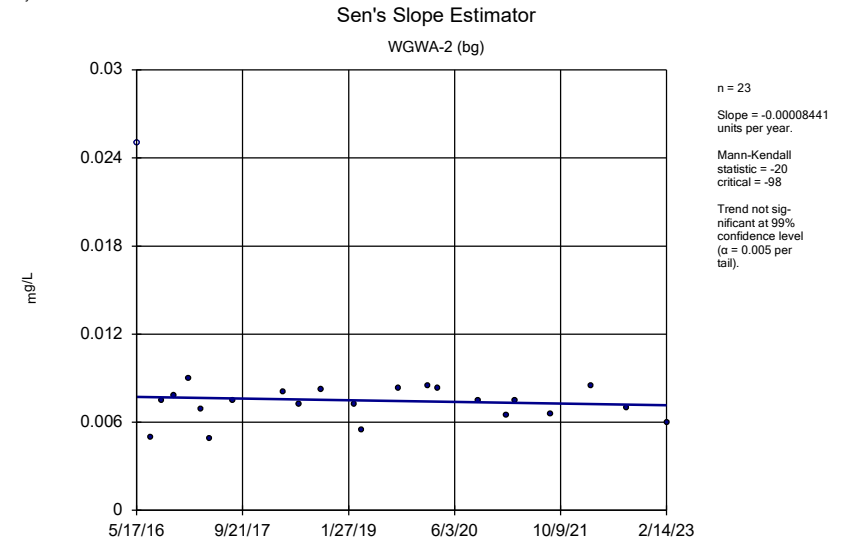
WGWA-1 (bg)



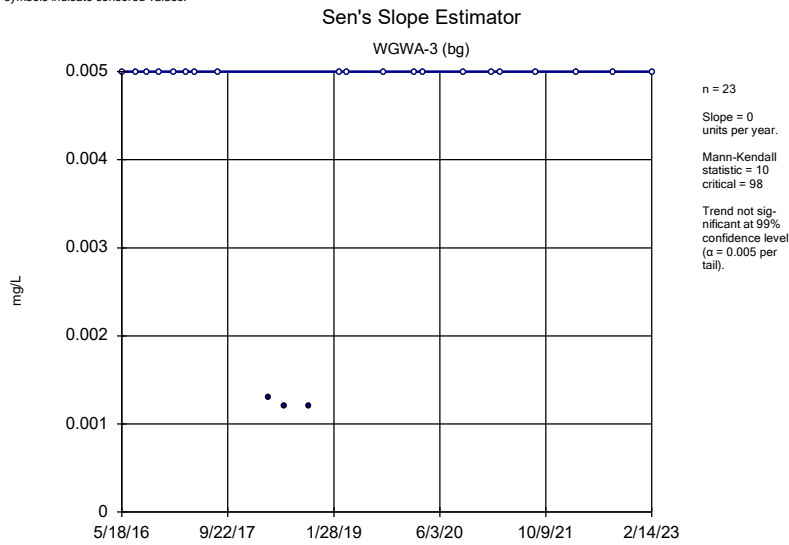
Constituent: Lithium Analysis Run 4/20/2023 12:58 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond



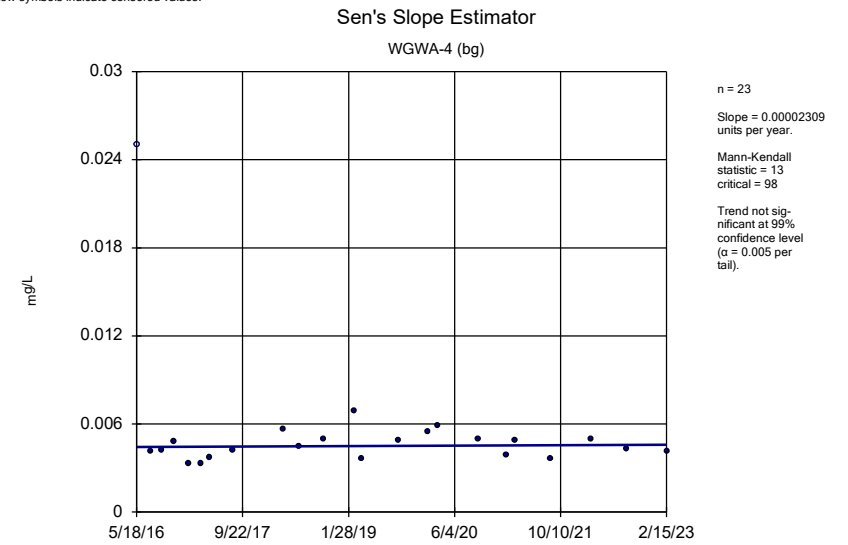
Constituent: Lithium Analysis Run 4/20/2023 12:58 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond



Constituent: Lithium Analysis Run 4/20/2023 12:58 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond



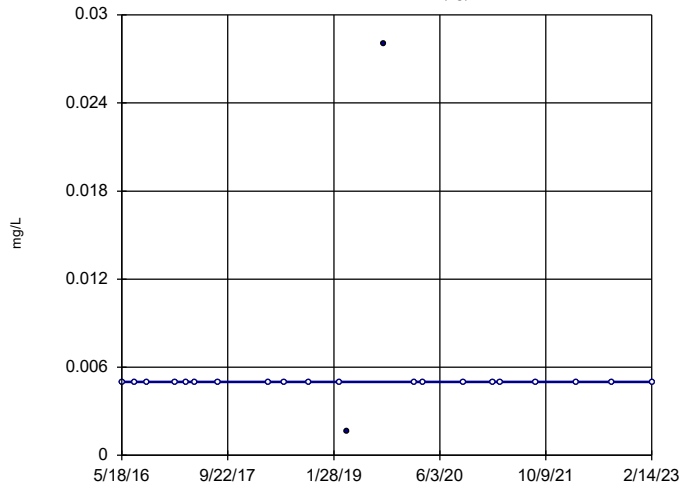
Constituent: Lithium Analysis Run 4/20/2023 12:58 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond



Constituent: Lithium Analysis Run 4/20/2023 12:58 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-5 (bg)

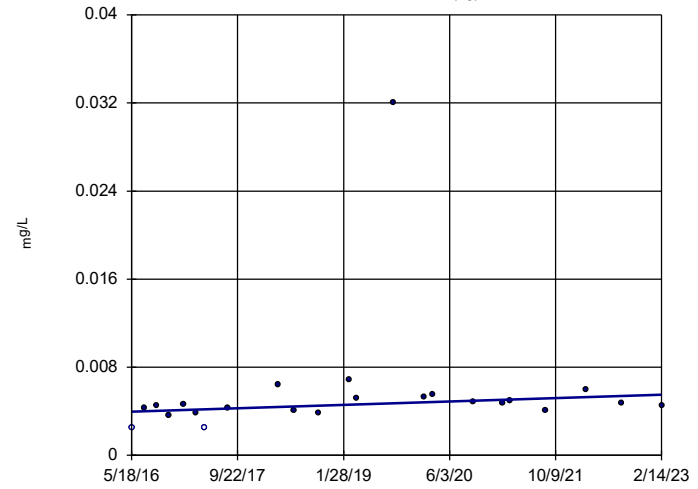


n = 22
Slope = 0
units per year.
Mann-Kendall
statistic = 1
critical = 92
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Lithium Analysis Run 4/20/2023 12:58 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-6 (bg)

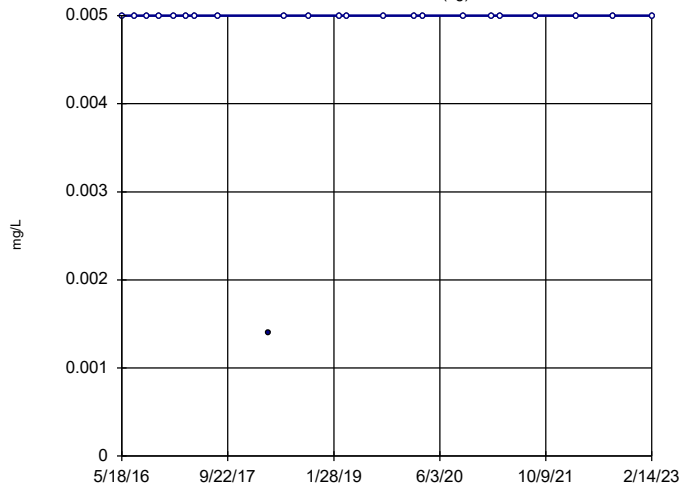


n = 23
Slope = 0.000231
units per year.
Mann-Kendall
statistic = 73
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Lithium Analysis Run 4/20/2023 12:58 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-7 (bg)

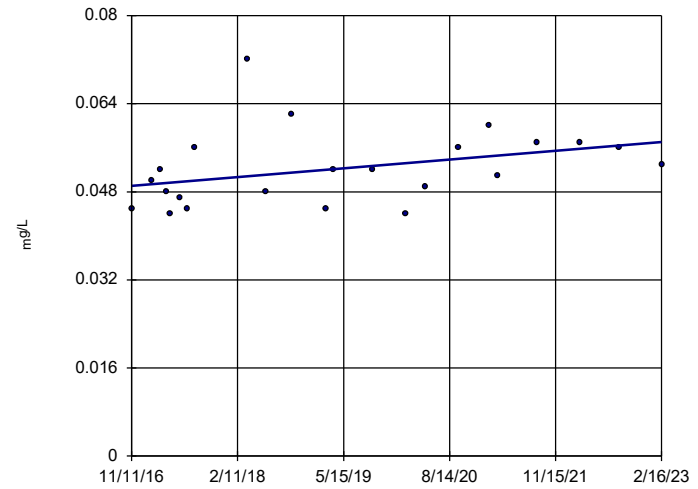


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = 6
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Lithium Analysis Run 4/20/2023 12:58 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

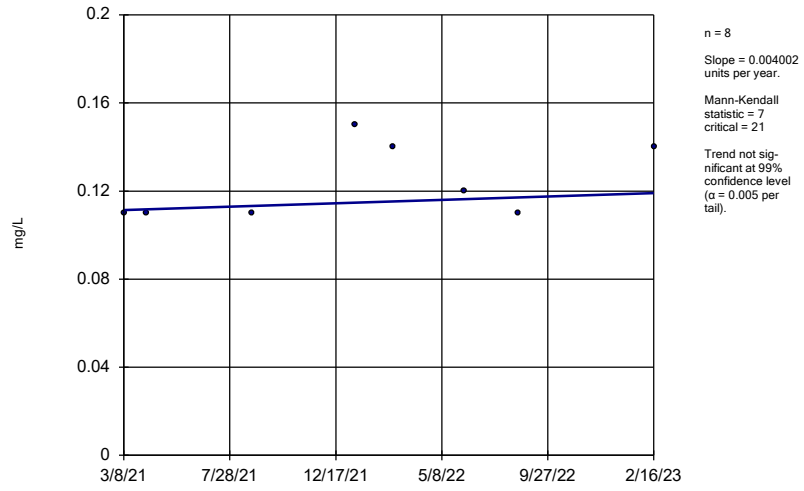
Sen's Slope Estimator

WGWC-19



Sen's Slope Estimator

WGWC-20

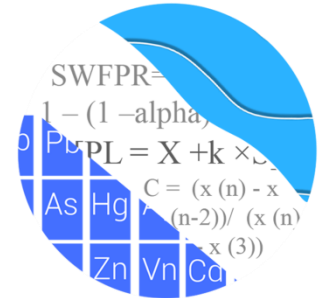


Constituent: Lithium Analysis Run 4/20/2023 12:58 PM View: A4 Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

GROUNDWATER STATS CONSULTING

January 31, 2024

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Wansley Ash Pond
August 2023 Statistical Analysis

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2023 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
- **Assessment wells:** WGWC-27, WGWC-28D, and PZ-26D

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 maximum of 8 times and for other Appendix IV parameters a maximum of 7 times. Prediction limits were used to evaluate Appendix III constituents when a minimum of 8 samples is available; and confidence intervals will be constructed for Appendix IV parameters when a minimum of 4 samples is available. Assessment well PZ-26D were first sampled in August 2023. Data from assessment wells are plotted on time series and box plots and will be evaluated for Appendix IV constituents using confidence intervals when the minimum 4 samples are available. Note that assessment well WGWC-26D was removed from evaluation, per request of Geosyntec Consultants, Inc. Assessment well WGWC-28D was sampled at a later date and its analysis will be included as an addendum to this report.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager 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 Coal Combustion Residuals (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, box plots are 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 well/constituent pairs with 100% non-detects follows this letter. Data from these wells 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. 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. Non-detects are handled as follows:

- 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, 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 for parametric limits. 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 – August 2023

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed 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 additional values were flagged and a summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through August 2023 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present. 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 most recent reporting limit in upgradient well data of 0.1 mg/L is substituted for all non-detects in the construction of interwell prediction 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 (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; 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, WGWC-16, WGWC-20, WGWC-21, WGWC-22, WGWC-24, and WGWC-25
- Calcium: WGWC-8, WGWC-20, and WGWC-21
- Chloride: WGWC-8, WGWC-16, WGWC-20, WGWC-21, WGWC-24, and WGWC-25
- Fluoride: WGWC-9, WGWC-15, WGWC-19, WGWC-20, WGWC-21, WGWC-22, and WGWC-24
- pH: WGWC-24
- Sulfate: WGWC-8, WGWC-9, WGWC-16, WGWC-20, WGWC-21, WGWC-22, WGWC-24, and WGWC-25
- TDS: WGWC-8, WGWC-20, WGWC-21, WGWC-22, WGWC-24, and WGWC-25

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of variability in groundwater unrelated to practices at the site. A summary of the Appendix III trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

- Boron: WGWC-8 and WGWC-9
- Calcium: WGWA-1 (upgradient) and WGWC-8
- Chloride: WGWC-8
- Sulfate: WGWA-4 (upgradient), WGWC-8, and WGWC-9
- TDS: WGWA-1 (upgradient) and WGWC-8

Decreasing trends:

- Boron: WGWC-16
- Calcium: WGWA-18 (upgradient)
- Chloride: WGWA-5 (upgradient), WGWC-16, and WGWC-24
- Fluoride: WGWA-18 (upgradient), WGWC-9, WGWC-15, and WGWC-22
- pH: WGWA-2 (upgradient)
- Sulfate: WGWA-18 (upgradient) and WGWC-16

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 (Maximum Contaminant Limits 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 – August 2023

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). Downgradient and assessment 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 additional values were flagged during this analysis and a complete list of outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2023 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.

Groundwater Protection Standards

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). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium,

and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the 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, Federal and State CCR Rules specify levels 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

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed using data through August 2023 for each of the Appendix IV constituents in each downgradient well with a minimum of 4 samples (Figure H). The Sanitas software was used to calculate the tolerance limits and the confidence intervals. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Note that due to its sample size, the lower confidence limit resulted in a negative number for arsenic at WGWC-24 when constructed with a parametric confidence interval. Therefore, a non-parametric confidence interval, which is bound by reported high and low measurements within a given well, was constructed for this particular case and follows the confidence intervals constructed for all other downgradient wells (Figure H). This is a more conservative approach in that the lower confidence limit reflects the lowest reported measurement in the data set rather than a negative number.

The confidence intervals were compared to the GWPS established using the rules mentioned above. 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 and graphical results of the confidence intervals analyses follow this letter. Exceedances were noted for the following well/constituent pairs:

- Beryllium: WGWC-20 and WGWC-24
- Cobalt: WGWC-24
- Lithium: WGWC-19 and WGWC-20

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Lithium: WGWC-19

Decreasing

- Cobalt: WGWA-1, WGWA-2, WGWA-5, and WGWA-18 (all upgradient)

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,



Tristan Clark
Groundwater Analyst



Andrew Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 10/10/2023 12:45 PM View: Appendix IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Antimony (mg/L)

WGWC-10, WGWC-13, WGWC-14A, WGWC-15, WGWC-16, WGWC-17, WGWC-24, WGWC-25

Arsenic (mg/L)

WGWC-19, WGWC-23, WGWC-25

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-21, WGWC-23, WGWC-9

Chromium (mg/L)

WGWC-12, WGWC-16, WGWC-17, WGWC-19, WGWC-20, WGWC-22, WGWC-23, WGWC-24, WGWC-25, WGWC-8

Lead (mg/L)

WGWC-20, WGWC-21, WGWC-25

Molybdenum (mg/L)

WGWC-16, WGWC-23, WGWC-24, WGWC-25, WGWC-8

Selenium (mg/L)

WGWC-13, WGWC-17, WGWC-21, WGWC-25

Thallium (mg/L)

WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-20, WGWC-21, WGWC-23, WGWC-25, WGWC-8, WGWC-9

Appendix III Interwell Prediction Limit - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/10/2023, 12:29 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Obsrv.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-16	0.1	n/a	8/18/2023	0.81	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-20	0.1	n/a	8/15/2023	3.1	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-21	0.1	n/a	8/21/2023	0.12	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-22	0.1	n/a	8/21/2023	0.33	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-24	0.1	n/a	8/21/2023	0.59	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-25	0.1	n/a	8/18/2023	0.57	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	8/18/2023	2.8	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	8/21/2023	0.6	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-20	58	n/a	8/15/2023	150	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-21	58	n/a	8/21/2023	63	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	8/18/2023	96	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	8/22/2023	34	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-20	6.05	n/a	8/17/2023	190	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-21	6.05	n/a	8/23/2023	47	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-24	6.05	n/a	8/23/2023	22	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-25	6.05	n/a	8/22/2023	35	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	8/22/2023	110	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	8/23/2023	0.73	Yes	199	n/a	n/a	45.23	n/a	n/a	n/a	0.00004964	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	8/23/2023	0.34	Yes	199	n/a	n/a	45.23	n/a	n/a	n/a	0.00004964	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-20	0.284	n/a	8/17/2023	2.1	Yes	199	n/a	n/a	45.23	n/a	n/a	n/a	0.00004964	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-21	0.284	n/a	8/23/2023	1.8	Yes	199	n/a	n/a	45.23	n/a	n/a	n/a	0.00004964	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-22	0.284	n/a	8/23/2023	0.32	Yes	199	n/a	n/a	45.23	n/a	n/a	n/a	0.00004964	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	8/22/2023	0.9	Yes	199	n/a	n/a	45.23	n/a	n/a	n/a	0.00004964	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-24	7.96	4.96	8/17/2023	4.37	Yes	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	8/22/2023	52	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-20	21	n/a	8/17/2023	330	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-21	21	n/a	8/23/2023	310	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-22	21	n/a	8/23/2023	71	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-24	21	n/a	8/23/2023	50	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	8/22/2023	240	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	8/22/2023	50	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	190	n/a	8/16/2023	910	Yes	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	190	n/a	8/22/2023	690	Yes	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	8/19/2023	680	Yes	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limit - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/10/2023, 12:29 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (S.U.)	WGWC-10	7.96	4.96	8/17/2023	6.49	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-11	7.96	4.96	8/16/2023	5.17	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-12	7.96	4.96	8/16/2023	6.1	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-13	7.96	4.96	8/16/2023	6.22	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-14A	7.96	4.96	8/16/2023	5.17	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-15	7.96	4.96	8/16/2023	7.41	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-16	7.96	4.96	8/15/2023	5.07	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-17	7.96	4.96	8/16/2023	6.13	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-19	7.96	4.96	8/16/2023	6.44	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-20	7.96	4.96	8/11/2023	5.31	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-21	7.96	4.96	8/17/2023	6.91	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-22	7.96	4.96	8/17/2023	5.41	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-23	7.96	4.96	8/17/2023	5.66	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-24	7.96	4.96	8/17/2023	4.37	Yes	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-25	7.96	4.96	8/15/2023	5.97	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-8	7.96	4.96	8/15/2023	5.43	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-9	7.96	4.96	8/16/2023	5.78	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-10	21	n/a	8/23/2023	1.7	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-11	21	n/a	8/23/2023	1	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-12	21	n/a	8/23/2023	12	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-13	21	n/a	8/23/2023	2.1	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-14A	21	n/a	8/23/2023	0.52J	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-15	21	n/a	8/23/2023	13	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	8/22/2023	52	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-17	21	n/a	8/23/2023	2.6	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-19	21	n/a	8/23/2023	2.6	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-20	21	n/a	8/17/2023	330	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-21	21	n/a	8/23/2023	310	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-22	21	n/a	8/23/2023	71	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-23	21	n/a	8/23/2023	4.9	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-24	21	n/a	8/23/2023	50	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-25	21	n/a	8/22/2023	19	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	8/22/2023	240	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	8/22/2023	50	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-10	190	n/a	8/22/2023	56	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-11	190	n/a	8/24/2023	33	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-12	190	n/a	8/24/2023	92	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-13	190	n/a	8/22/2023	84	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-14A	190	n/a	8/24/2023	29	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-15	190	n/a	8/22/2023	150	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	190	n/a	8/19/2023	160	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-17	190	n/a	8/22/2023	81	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-19	190	n/a	8/24/2023	100	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	190	n/a	8/16/2023	910	Yes	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	190	n/a	8/22/2023	690	Yes	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-22	190	n/a	8/24/2023	180	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-23	190	n/a	8/24/2023	73	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-24	190	n/a	8/24/2023	150	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-25	190	n/a	8/19/2023	180	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	8/19/2023	680	Yes	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-9	190	n/a	8/22/2023	110	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 9/29/2023, 9:28 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWC-16	-0.8041	-133	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1864	141	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.04726	109	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-1 (bg)	0.04785	100	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.351	-96	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	9.67	183	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.1038	-121	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-37.36	-129	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-24	-40.27	-33	-25	Yes	9	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	16.97	172	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008559	-142	-111	Yes	25	16	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02438	-131	-111	Yes	25	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-22	-0.2072	-29	-25	Yes	9	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1129	-203	-111	Yes	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-2 (bg)	-0.03385	-124	-111	Yes	25	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-18 (bg)	-0.5904	-90	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.3536	112	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-73.79	-115	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.01	154	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.516	114	87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-1 (bg)	3.478	91	87	Yes	21	19.05	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	47.42	176	87	Yes	21	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 9/29/2023, 9:28 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWA-1 (bg)	0	-18	-87	No	21	95.24	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-18 (bg)	0	0	87	No	21	90.48	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-2 (bg)	0	-52	-87	No	21	80.95	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-3 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-4 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-5 (bg)	0	-17	-81	No	20	95	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-6 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-7 (bg)	0	-18	-87	No	21	95.24	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-16	-0.8041	-133	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-20	0.8962	12	25	No	9	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-21	-0.002107	-4	-25	No	9	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-22	0.01018	6	25	No	9	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-24	-0.62	-24	-25	No	9	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-25	0.1495	16	25	No	9	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1864	141	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.04726	109	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-1 (bg)	0.04785	100	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.351	-96	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-2 (bg)	-0.1601	-39	-87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-3 (bg)	0	9	87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-4 (bg)	0	-12	-87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-5 (bg)	0	-1	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-6 (bg)	0	16	87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-7 (bg)	-0.01082	-10	-87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-20	25.11	10	25	No	9	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-21	1.614	4	25	No	9	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	9.67	183	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.05519	81	87	No	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-18 (bg)	-0.06251	-79	-87	No	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-2 (bg)	0.04696	83	87	No	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-3 (bg)	0	-20	-87	No	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-4 (bg)	0	-63	-87	No	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.1038	-121	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-6 (bg)	0	2	87	No	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-7 (bg)	0	-17	-87	No	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-37.36	-129	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-20	53.26	12	25	No	9	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-21	-3.733	-9	-25	No	9	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-24	-40.27	-33	-25	Yes	9	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-25	0	3	25	No	9	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	16.97	172	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-1 (bg)	0	-13	-111	No	25	76	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008559	-142	-111	Yes	25	16	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-2 (bg)	-0.01627	-104	-111	No	25	36	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-3 (bg)	0	-51	-111	No	25	64	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-4 (bg)	-0.003312	-63	-111	No	25	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-5 (bg)	0	28	105	No	24	87.5	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-6 (bg)	-0.00264	-55	-111	No	25	8	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-7 (bg)	0	-19	-111	No	25	76	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02438	-131	-111	Yes	25	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-19	-0.01088	-93	-111	No	25	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-20	0.1151	16	25	No	9	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-21	0	4	25	No	9	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-22	-0.2072	-29	-25	Yes	9	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1129	-203	-111	Yes	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-1 (bg)	-0.02503	-90	-111	No	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-18 (bg)	-0.1263	-95	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-2 (bg)	-0.03385	-124	-111	Yes	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-3 (bg)	-0.01984	-83	-111	No	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-4 (bg)	0.005211	6	111	No	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-5 (bg)	-0.006546	-10	-111	No	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-6 (bg)	0.02921	71	105	No	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-7 (bg)	-0.02889	-75	-111	No	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWC-24	0.07124	13	25	No	9	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-1 (bg)	0	-11	-87	No	21	90.48	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-18 (bg)	-0.5904	-90	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-2 (bg)	-0.04743	-48	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-3 (bg)	-0.009947	-30	-87	No	21	4.762	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 9/29/2023, 9:28 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.3536	112	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-5 (bg)	0.01325	10	81	No	20	20	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-6 (bg)	-0.06669	-30	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-7 (bg)	0	-21	-87	No	21	71.43	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-73.79	-115	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-20	35.59	12	25	No	9	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-21	38.75	13	25	No	9	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-22	4.735	2	25	No	9	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-24	-41.44	-21	-25	No	9	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.01	154	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.516	114	87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-1 (bg)	3.478	91	87	Yes	21	19.05	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-18 (bg)	-3.687	-49	-87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-2 (bg)	2.484	38	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-3 (bg)	1.797	52	87	No	21	4.762	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-4 (bg)	1.444	49	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-5 (bg)	2.037	25	81	No	20	10	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-6 (bg)	3.323	75	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-7 (bg)	1.525	29	87	No	21	14.29	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	141	10	25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	51.78	15	25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	47.42	176	87	Yes	21	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/13/2023, 10:41 AM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg.N</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	n/a	151	98.01	n/a	n/a	0.0004328	NP Inter(NDs)
Arsenic (mg/L)	0.0014	n/a	n/a	n/a	191	82.72	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.062	n/a	n/a	n/a	191	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0025	n/a	n/a	n/a	191	94.24	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0025	n/a	n/a	n/a	175	100	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0063	n/a	n/a	n/a	191	94.76	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.013	n/a	n/a	n/a	190	46.84	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	11.4	n/a	n/a	n/a	188	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride, total (mg/L)	0.284	n/a	n/a	n/a	199	45.23	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	175	89.14	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.009	n/a	n/a	n/a	181	51.93	n/a	n/a	NaN	NP Inter(NDs)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	159	91.19	n/a	n/a	0.0002871	NP Inter(NDs)
Molybdenum (mg/L)	0.015	n/a	n/a	n/a	190	91.58	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	191	95.29	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	191	93.19	n/a	n/a	NaN	NP Inter(NDs)

WANSLEY AP GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background	GWPS
Antimony, Total (mg/L)	0.006		0.0022	0.006
Arsenic, Total (mg/L)	0.01		0.0014	0.01
Barium, Total (mg/L)	2		0.062	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0063	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.013	0.013
Combined Radium, Total (pCi/L)	5		11.4	11.4
Fluoride, Total (mg/L)	4		0.28	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.009	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

Highlighted cells indicate background is higher than established limit.

Appendix IV Confidence Intervals - Significant Results

Plant Wansley Data: Wansley Ash Pond Printed 10/12/2023, 4:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	WGWC-20	0.01145	0.007975	0.004	Yes	7	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-24	0.01385	0.004267	0.004	Yes	7	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-24	0.1202	0.02782	0.013	Yes	7	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.05615	0.0491	0.04	Yes	24	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	9	0	None	No	0.002	NP (normality)

Appendix IV Confidence Intervals - All Results

Plant Wansley Data: Wansley Ash Pond Printed 10/12/2023, 4:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-11	0.002	0.00053	0.006	No	19	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	19	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-19	0.002	0.00058	0.006	No	19	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-20	0.002	0.00066	0.006	No	7	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	WGWC-21	0.002	0.00053	0.006	No	7	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	WGWC-22	0.001117	0.0005663	0.006	No	7	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Antimony (mg/L)	WGWC-23	0.001973	0.001113	0.006	No	7	42.86	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-8	0.0079	0.00064	0.006	No	19	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.0043	0.0011	0.006	No	19	63.16	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	24	79.17	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	24	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	24	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00048	0.01	No	24	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0014	0.00095	0.01	No	24	70.83	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.00196	0.001111	0.01	No	24	8.333	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0013	0.001	0.01	No	24	58.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-17	0.001	0.00075	0.01	No	24	58.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-20	0.001	0.00031	0.01	No	7	42.86	None	No	0.008	NP (normality)
Arsenic (mg/L)	WGWC-21	0.0007404	0.0002876	0.01	No	7	28.57	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-22	0.001	0.00029	0.01	No	7	71.43	Kaplan-Meier	No	0.008	NP (NDs)
Arsenic (mg/L)	WGWC-24	0.0033	0.00028	0.01	No	7	28.57	None	No	0.008	NP (selected)
Arsenic (mg/L)	WGWC-8	0.0009562	0.0006277	0.01	No	24	45.83	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	24	87.5	None	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.04014	0.03439	2	No	24	0	None	In(x)	0.01	Param.
Barium (mg/L)	WGWC-11	0.04102	0.0334	2	No	24	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-12	0.019	0.015	2	No	24	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-13	0.05401	0.04483	2	No	24	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04216	0.02997	2	No	24	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	WGWC-15	0.02546	0.02125	2	No	24	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.05407	0.03888	2	No	24	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-17	0.018	0.011	2	No	24	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.01	0.0013	2	No	24	33.33	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-20	0.01	0.00091	2	No	7	85.71	None	No	0.008	NP (NDs)
Barium (mg/L)	WGWC-21	0.008533	0.004181	2	No	7	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-22	0.03894	0.02135	2	No	7	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-23	0.01001	0.006329	2	No	7	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-24	0.04454	0.02804	2	No	7	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-25	0.4202	0.2484	2	No	7	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-8	0.01	0.0011	2	No	24	37.5	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.01	0.00092	2	No	24	45.83	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00026	0.004	No	24	66.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	24	95.83	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-20	0.01145	0.007975	0.004	Yes	7	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-21	0.0025	0.00021	0.004	No	7	71.43	None	No	0.008	NP (NDs)
Beryllium (mg/L)	WGWC-22	0.0006659	0.0005369	0.004	No	7	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-23	0.001287	0.0008387	0.004	No	7	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-24	0.01385	0.004267	0.004	Yes	7	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-25	0.0025	0.0002	0.004	No	7	28.57	None	No	0.008	NP (normality)
Beryllium (mg/L)	WGWC-8	0.00218	0.001674	0.004	No	24	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	24	37.5	None	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No	22	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.0025	0.00047	0.005	No	22	36.36	None	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-20	0.0025	0.00019	0.005	No	7	57.14	None	No	0.008	NP (NDs)
Cadmium (mg/L)	WGWC-22	0.0025	0.00009	0.005	No	7	57.14	None	No	0.008	NP (NDs)
Cadmium (mg/L)	WGWC-24	0.0005782	0.0001147	0.005	No	7	0	None	No	0.01	Param.
Cadmium (mg/L)	WGWC-25	0.0025	0.0001	0.005	No	7	71.43	None	No	0.008	NP (NDs)
Cadmium (mg/L)	WGWC-8	0.0025	0.00065	0.005	No	22	90.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-10	0.002267	0.001583	0.1	No	24	12.5	None	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.002	0.0017	0.1	No	24	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	24	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	24	95.83	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	24	95.83	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-21	0.002	0.0015	0.1	No	7	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	24	95.83	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001371	0.0007391	0.013	No	24	8.333	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	24	41.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.0009382	0.0004252	0.013	No	24	4.167	None	In(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.0008	0.013	No	24	75	None	No	0.01	NP (NDs)

Appendix IV Confidence Intervals

Plant Wansley Data: Wansley Ash Pond Printed 10/12/2023, 4:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	WGWC-14A	0.00854	0.004306	0.013	No	24	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	24	95.83	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.005398	0.0008205	0.013	No	24	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-17	0.001125	0.0005141	0.013	No	24	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00025	0.013	No	24	41.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-20	0.0025	0.00037	0.013	No	7	71.43	None	No	0.008	NP (NDs)
Cobalt (mg/L)	WGWC-21	0.0025	0.00032	0.013	No	7	28.57	None	No	0.008	NP (normality)
Cobalt (mg/L)	WGWC-22	0.0025	0.00025	0.013	No	7	57.14	None	No	0.008	NP (NDs)
Cobalt (mg/L)	WGWC-23	0.0025	0.00016	0.013	No	7	71.43	None	No	0.008	NP (NDs)
Cobalt (mg/L)	WGWC-24	0.1202	0.02782	0.013	Yes	7	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-25	0.006525	0.003564	0.013	No	7	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	WGWC-8	0.0025	0.00066	0.013	No	24	45.83	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	24	95.83	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4308	0.1848	11.4	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.5911	0.2232	11.4	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.5576	0.2175	11.4	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7394	0.428	11.4	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8119	0.5321	11.4	No	24	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.5828	0.2702	11.4	No	24	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.556	0.7546	11.4	No	24	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5292	0.1753	11.4	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.5331	0.2158	11.4	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-20	1.355	0.5663	11.4	No	7	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-21	2.382	0.5939	11.4	No	7	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-22	7.187	3.159	11.4	No	7	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-23	1.646	0.2627	11.4	No	7	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-24	1.533	0.7176	11.4	No	7	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-25	1.003	0.5003	11.4	No	7	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	2.239	1.507	11.4	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4015	0.1658	11.4	No	24	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-10	0.1651	0.1217	4	No	25	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-11	0.1	0.045	4	No	25	52	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-12	0.09676	0.07296	4	No	25	16	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-13	0.2732	0.1951	4	No	25	4	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-14A	0.1	0.048	4	No	25	64	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-15	0.8523	0.7644	4	No	25	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-16	0.15	0.067	4	No	25	8	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-17	0.1244	0.07932	4	No	25	4	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-19	0.3708	0.3252	4	No	25	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-20	2.203	1.752	4	No	9	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-21	1.938	1.706	4	No	9	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-22	1.4	0.31	4	No	9	0	None	No	0.002	NP (normality)
Fluoride, total (mg/L)	WGWC-23	0.07957	0.0361	4	No	9	0	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-24	1.081	0.383	4	No	9	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-25	0.1	0.028	4	No	9	44.44	None	No	0.002	NP (normality)
Fluoride, total (mg/L)	WGWC-8	0.3171	0.1937	4	No	25	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-9	1.428	1.119	4	No	25	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00025	0.015	No	22	54.55	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	22	81.82	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-12	0.001	0.00033	0.015	No	22	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00038	0.015	No	22	36.36	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00031	0.015	No	22	59.09	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.015	No	22	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	22	90.91	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	22	90.91	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-19	0.001	0.0003	0.015	No	22	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-22	0.001	0.00022	0.015	No	7	28.57	None	No	0.008	NP (normality)
Lead (mg/L)	WGWC-23	0.0046	0.001	0.015	No	7	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	WGWC-24	0.001013	0.0002496	0.015	No	7	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-8	0.001	0.00029	0.015	No	22	63.64	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	22	95.45	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01251	0.006117	0.04	No	24	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	24	83.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.0077	0.0062	0.04	No	24	4.167	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-13	0.005	0.0037	0.04	No	24	70.83	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.04	No	24	62.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.007065	0.00531	0.04	No	24	8.333	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.009431	0.005761	0.04	No	24	8.333	None	No	0.01	Param.

Appendix IV Confidence Intervals

Plant Wansley Data: Wansley Ash Pond Printed 10/12/2023, 4:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	WGWC-17	0.0058	0.0044	0.04	No	24	4.167	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-19	0.05615	0.0491	0.04	Yes	24	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	9	0	None	No	0.002	NP (normality)
Lithium (mg/L)	WGWC-21	0.05655	0.03034	0.04	No	9	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-22	0.011	0.0069	0.04	No	9	0	None	No	0.002	NP (normality)
Lithium (mg/L)	WGWC-23	0.005	0.0015	0.04	No	9	66.67	None	No	0.002	NP (NDs)
Lithium (mg/L)	WGWC-24	0.008529	0.004004	0.04	No	9	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-25	0.004501	0.003143	0.04	No	9	11.11	None	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.015	0.013	0.04	No	24	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03696	0.032	0.04	No	24	0	None	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.00013	0.002	No	20	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No	20	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00018	0.002	No	20	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No	20	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No	20	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000093	0.002	No	20	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No	20	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No	20	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No	20	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-20	0.00033	0.0002	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	WGWC-21	0.0002	0.0002	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	WGWC-22	0.0002	0.00018	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	WGWC-23	0.00022	0.0002	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	WGWC-24	0.00026	0.0002	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	WGWC-25	0.0019	0.0002	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No	20	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No	20	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	24	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No	24	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.0046	0.1	No	24	75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.002905	0.001507	0.1	No	24	12.5	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	24	95.83	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.005682	0.003107	0.1	No	24	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.00526	0.0023	0.1	No	24	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-19	0.0016	0.0012	0.1	No	24	29.17	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-20	0.015	0.00062	0.1	No	7	71.43	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	WGWC-21	0.0426	0.02997	0.1	No	7	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-22	0.015	0.00084	0.1	No	7	85.71	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	WGWC-9	0.0053	0.0028	0.1	No	24	0	None	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	24	95.83	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	24	95.83	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	24	95.83	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	24	95.83	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	24	95.83	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.009568	0.004653	0.05	No	24	4.167	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	24	95.83	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-20	0.0027	0.0014	0.05	No	7	14.29	None	No	0.008	NP (normality)
Selenium (mg/L)	WGWC-22	0.007448	0.003495	0.05	No	7	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-23	0.002597	0.001546	0.05	No	7	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-24	0.005	0.00077	0.05	No	7	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	WGWC-8	0.0038	0.0032	0.05	No	24	0	None	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-9	0.002887	0.002287	0.05	No	24	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	24	95.83	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	24	95.83	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00016	0.002	No	24	54.17	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-16	0.001	0.00017	0.002	No	24	50	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	24	95.83	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-22	0.001	0.00047	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Thallium (mg/L)	WGWC-24	0.000695	0.0003021	0.002	No	7	0	None	No	0.01	Param.

Appendix IV Trend Tests - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/10/2023, 12:53 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	WGWA-1 (bg)	-0.000079	-163	-81	Yes	24	4.167	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-18 (bg)	-0.0002994	-123	-81	Yes	24	8.333	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-2 (bg)	-0.0001023	-191	-81	Yes	24	8.333	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-5 (bg)	-0.0003181	-100	-71	Yes	22	4.545	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWC-19	0.001516	95	81	Yes	24	0	n/a	n/a	0.05	NP

Appendix IV Trend Tests - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/10/2023, 12:53 PM

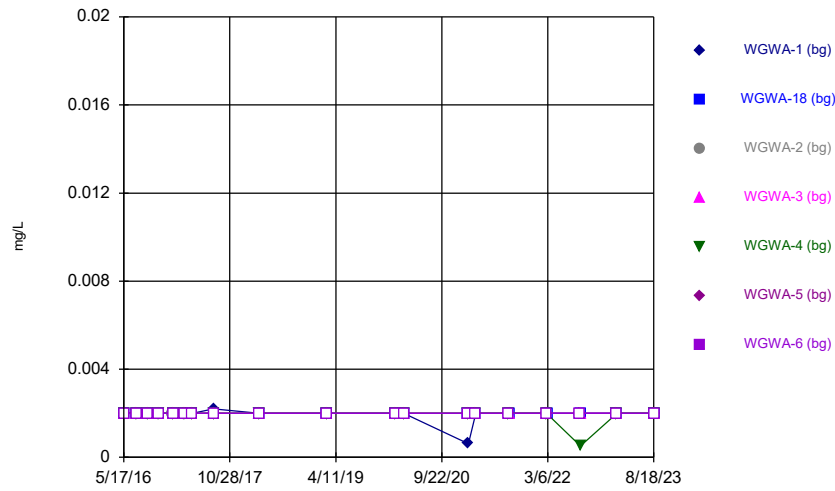
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	WGWA-1 (bg)	0	-24	-81	No	24	87.5	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-18 (bg)	0	0	81	No	24	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-2 (bg)	0	-22	-81	No	24	87.5	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-3 (bg)	0	-21	-81	No	24	91.67	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-4 (bg)	0	0	81	No	24	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-5 (bg)	0	-2	-76	No	23	95.65	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-6 (bg)	0	-3	-81	No	24	95.83	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-7 (bg)	0	-5	-81	No	24	95.83	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGC-20	0	0	15	No	7	0	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGC-24	-0.005658	-14	-15	No	7	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-1 (bg)	-0.000079	-163	-81	Yes	24	4.167	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-18 (bg)	-0.0002994	-123	-81	Yes	24	8.333	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-2 (bg)	-0.0001023	-191	-81	Yes	24	8.333	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-3 (bg)	0	0	81	No	24	100	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-4 (bg)	0	1	81	No	24	95.83	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-5 (bg)	-0.0003181	-100	-71	Yes	22	4.545	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-6 (bg)	0	0	81	No	24	83.33	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-7 (bg)	0	-15	-81	No	24	66.67	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGC-24	-0.0529	-15	-15	No	7	0	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-1 (bg)	-0.00004078	-45	-76	No	23	39.13	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-18 (bg)	0	12	76	No	23	86.96	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-2 (bg)	-0.00008441	-20	-76	No	23	0	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-3 (bg)	0	16	76	No	23	86.96	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-4 (bg)	0.00002309	13	76	No	23	4.348	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-5 (bg)	0	0	66	No	21	95.24	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-6 (bg)	0.00008795	29	71	No	22	9.091	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-7 (bg)	0	8	76	No	23	95.65	n/a	n/a	0.05	NP
Lithium (mg/L)	WGC-19	0.001516	95	81	Yes	24	0	n/a	n/a	0.05	NP
Lithium (mg/L)	WGC-20	0.008103	9	20	No	9	0	n/a	n/a	0.05	NP

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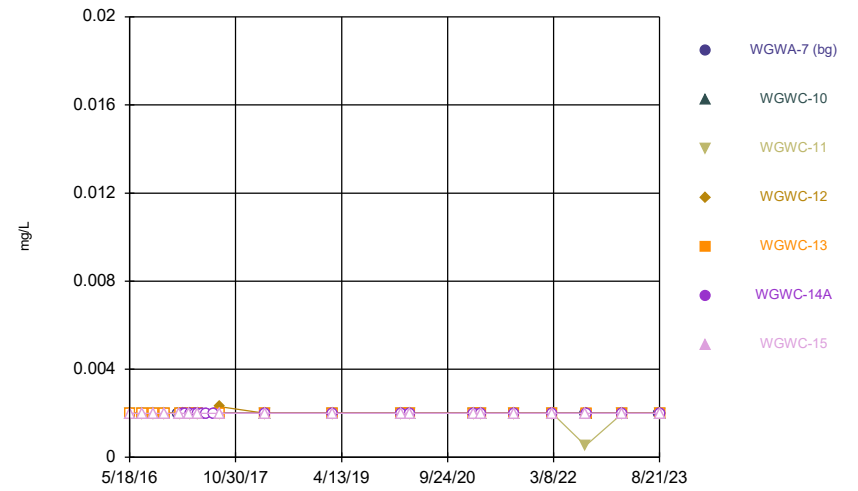
FIGURE A.

Time Series



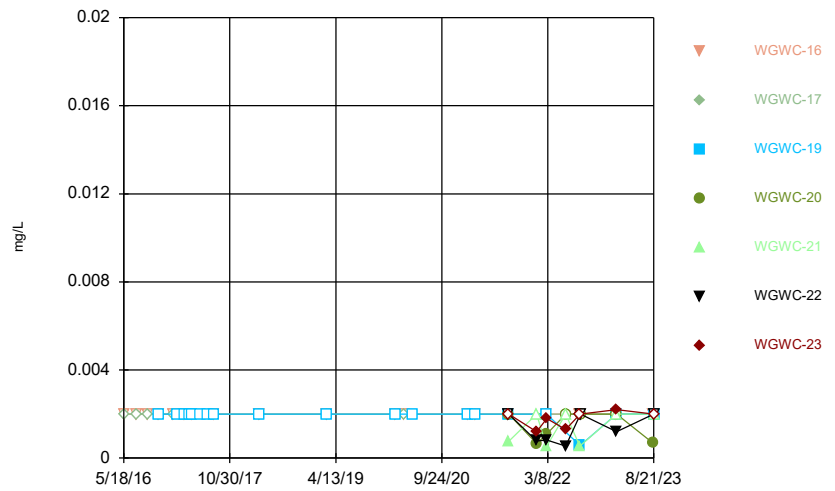
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Time Series



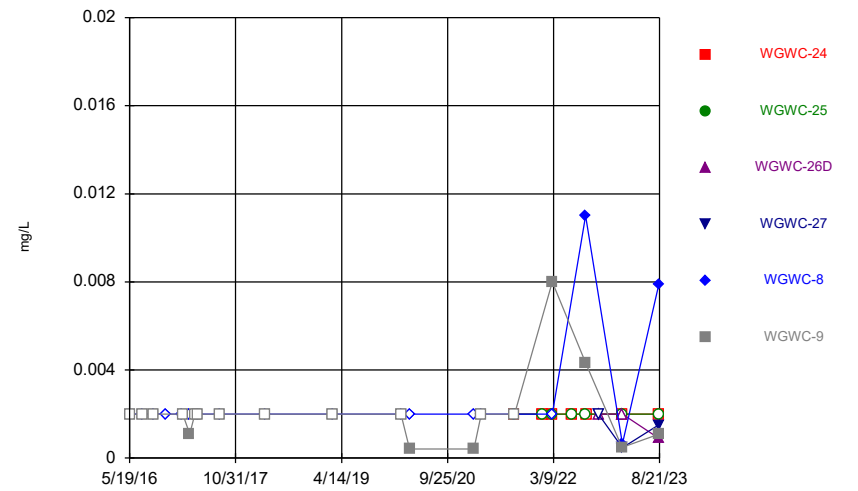
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Time Series



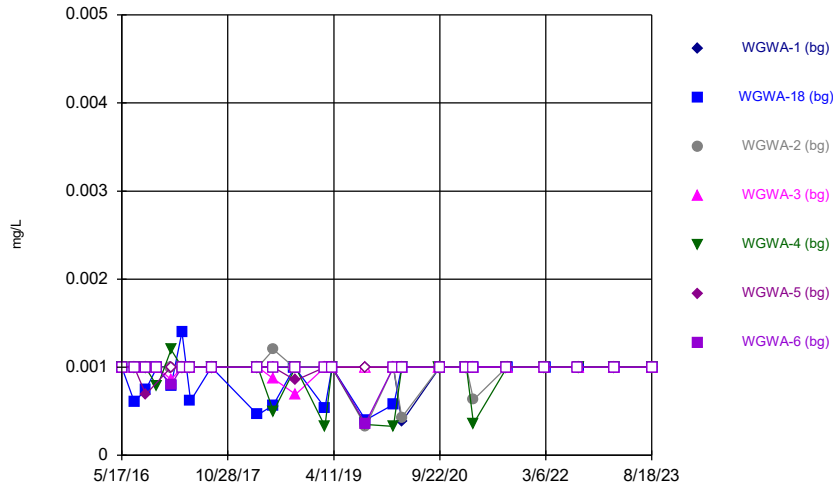
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



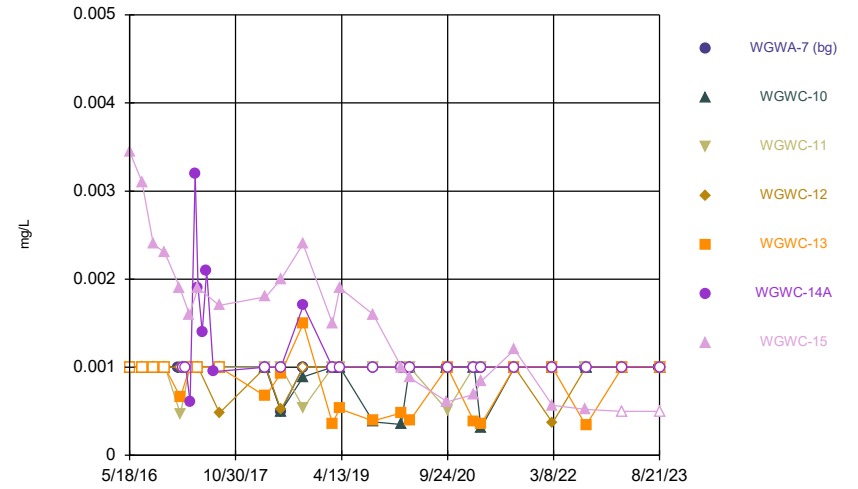
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Time Series



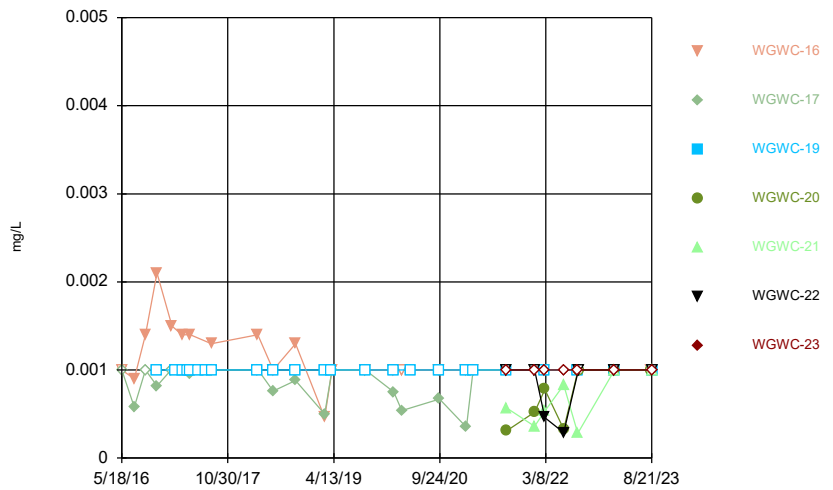
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Time Series



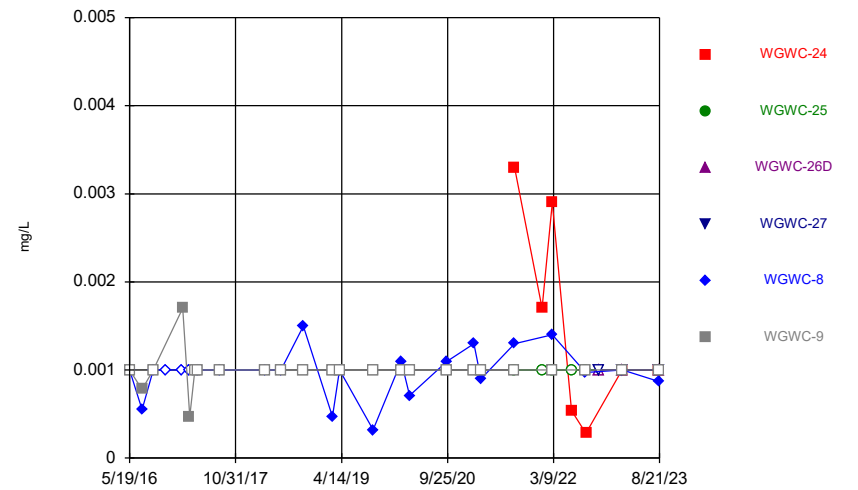
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Time Series



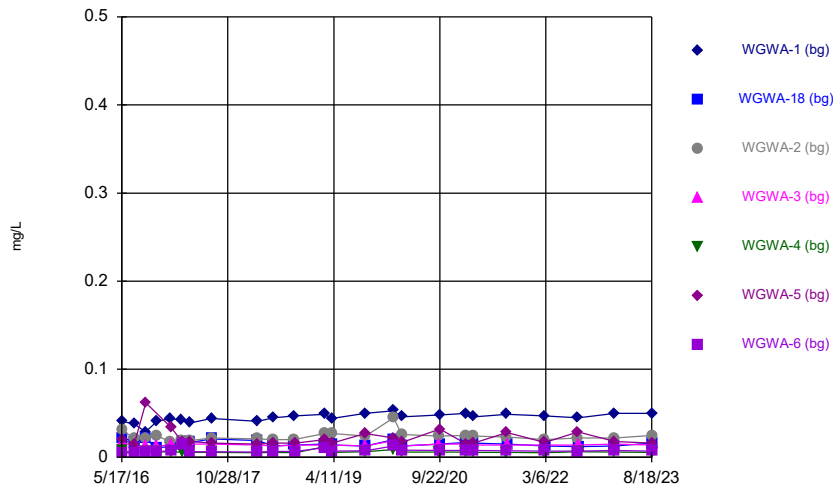
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Time Series



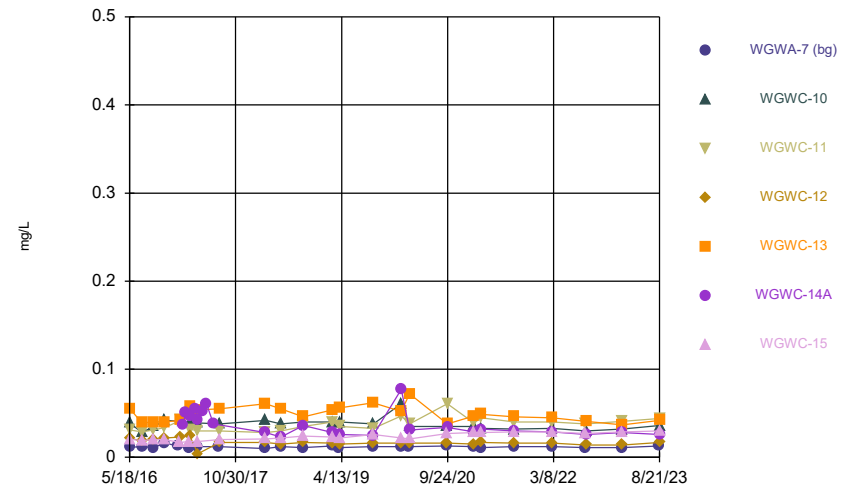
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Time Series



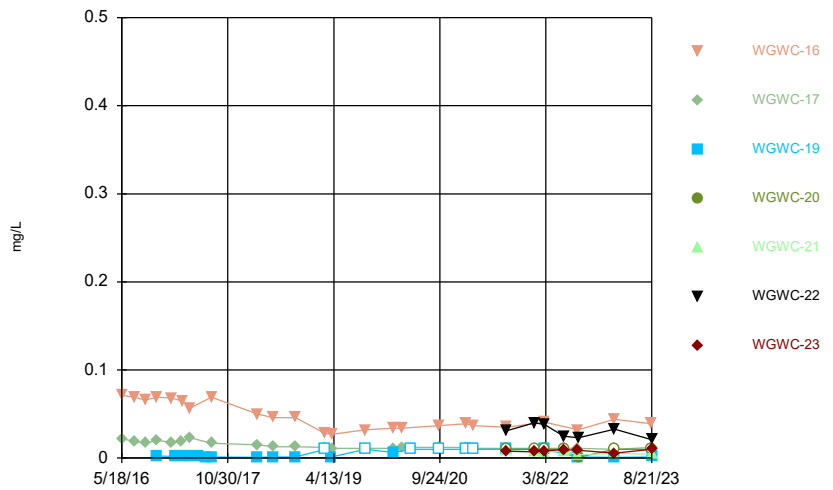
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Time Series



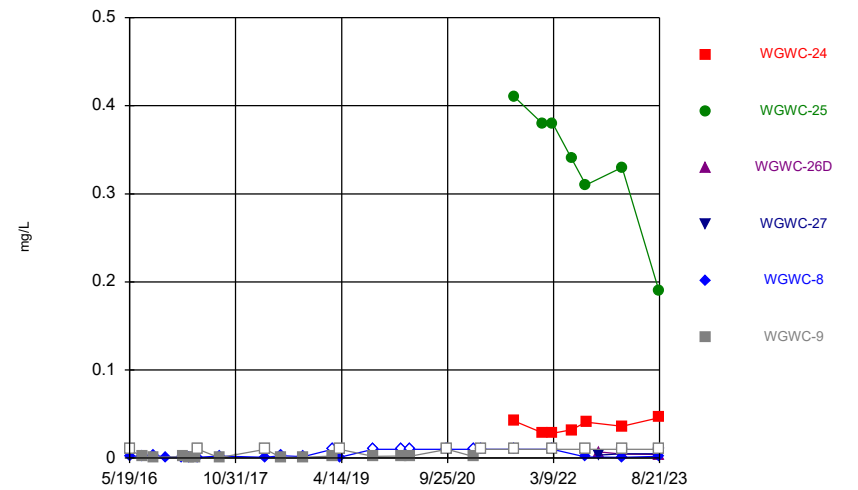
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Time Series



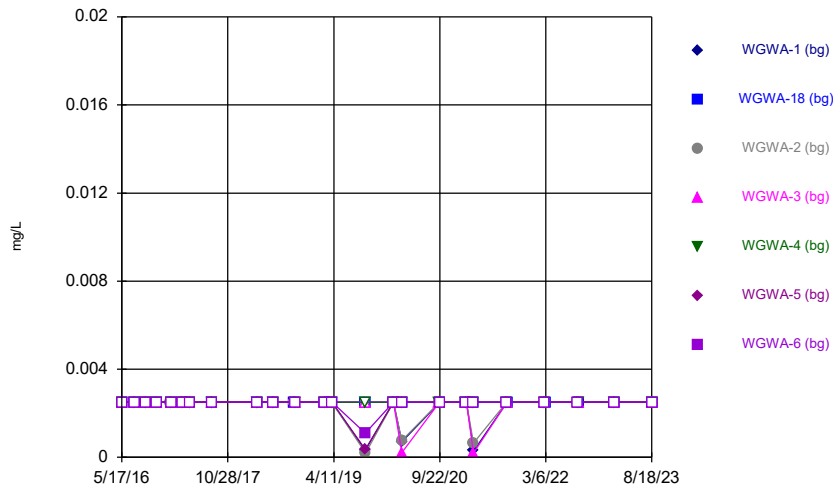
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Time Series



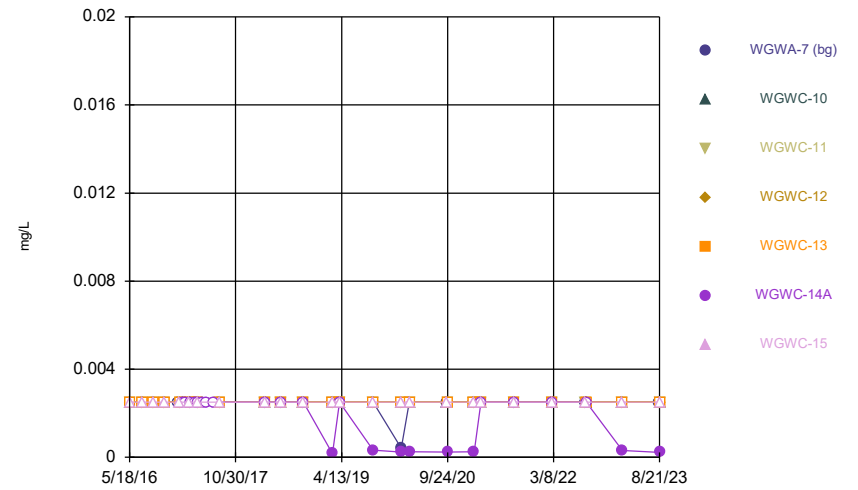
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Time Series



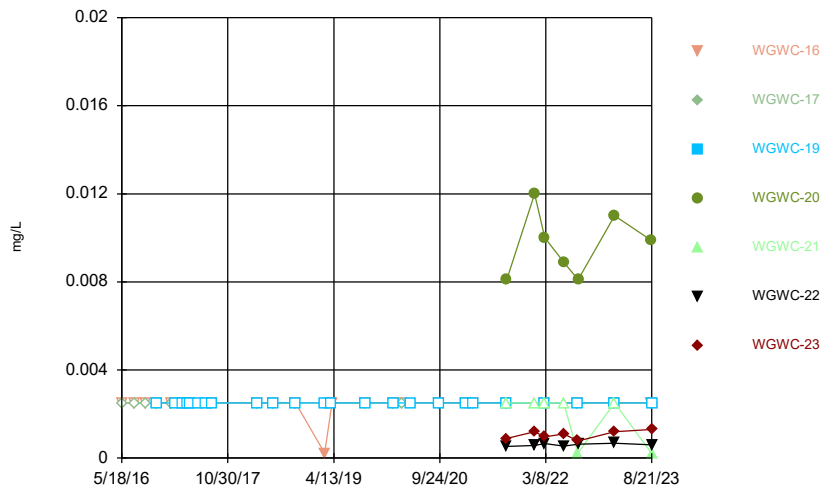
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Time Series



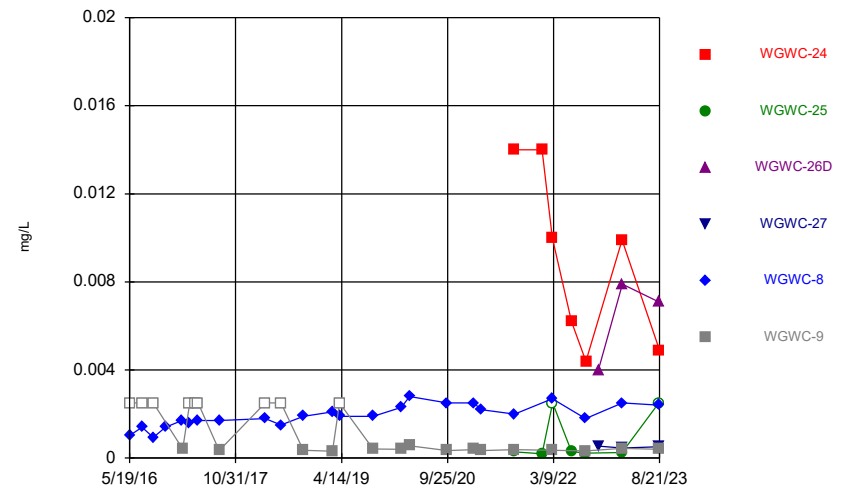
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Time Series



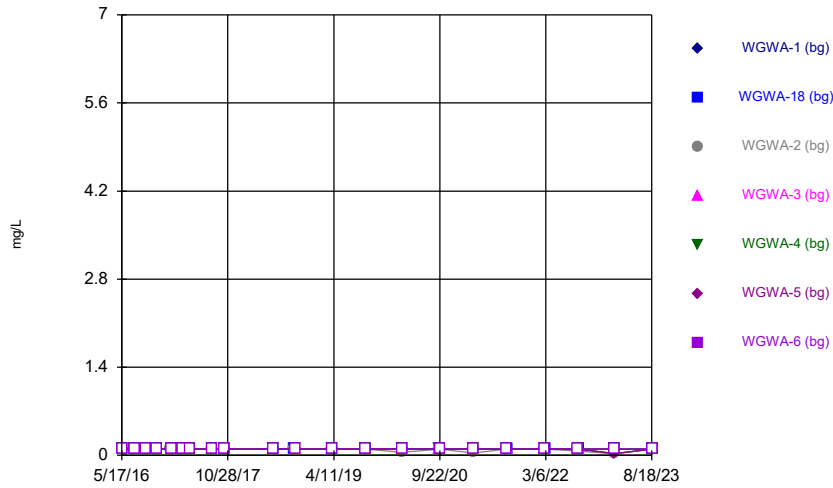
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Time Series



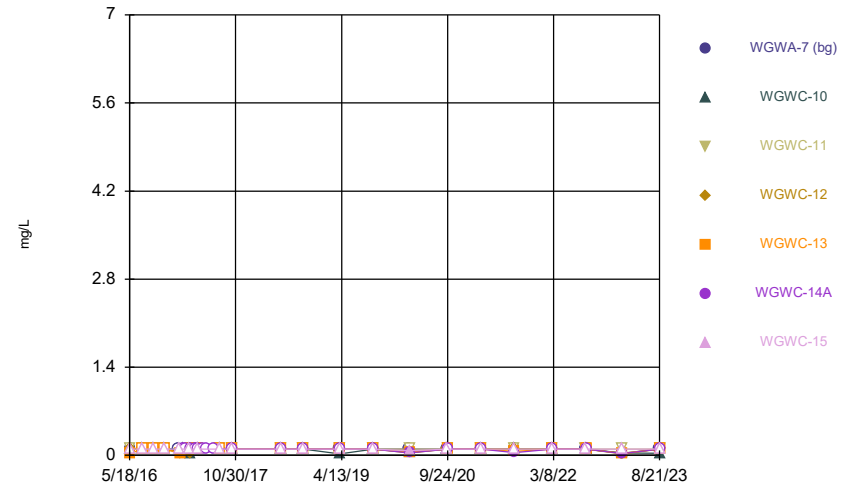
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Time Series



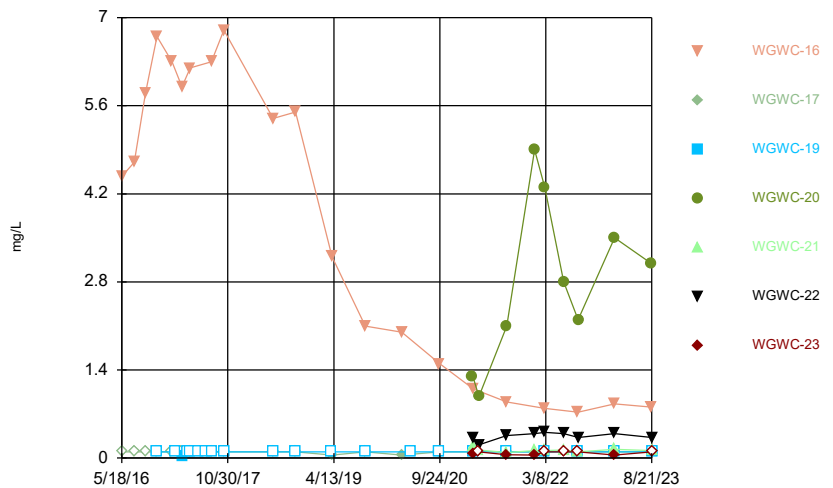
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Time Series



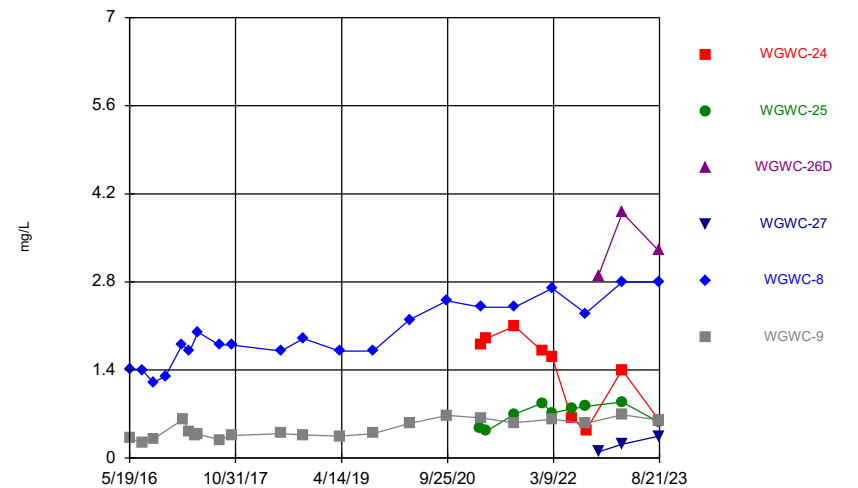
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Time Series



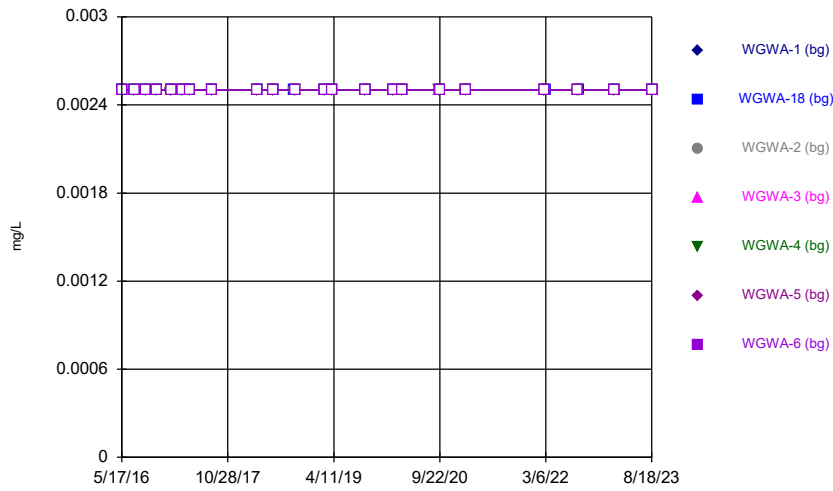
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Time Series



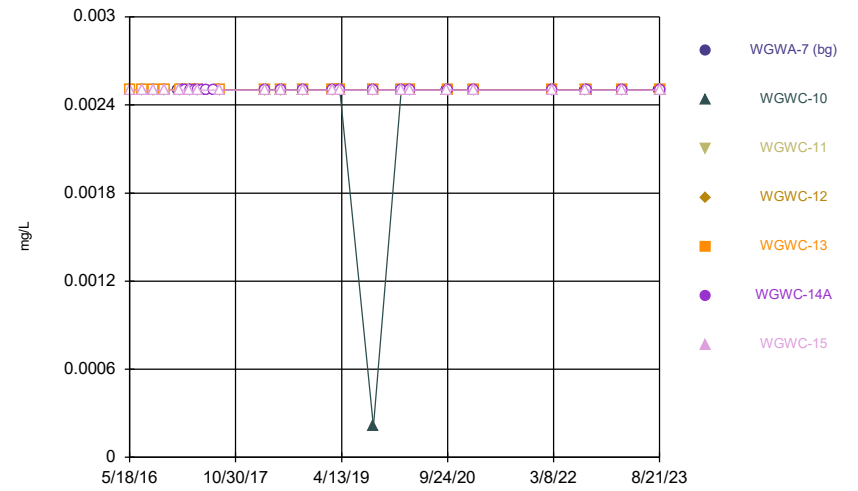
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Time Series



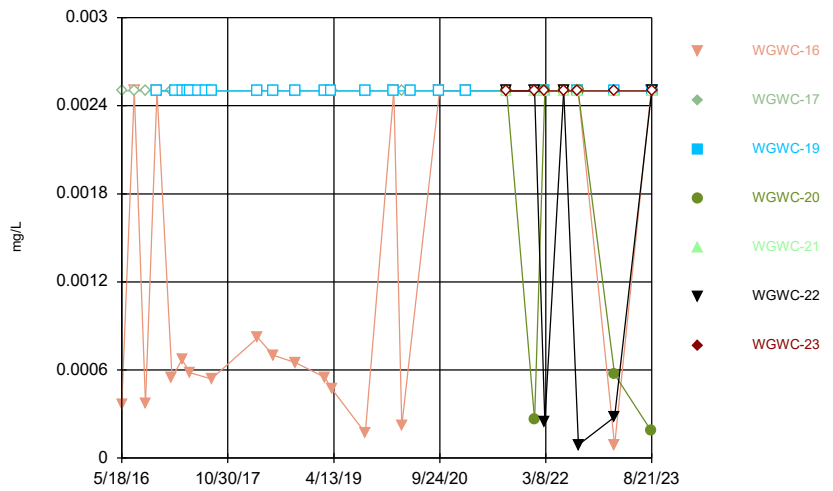
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Time Series



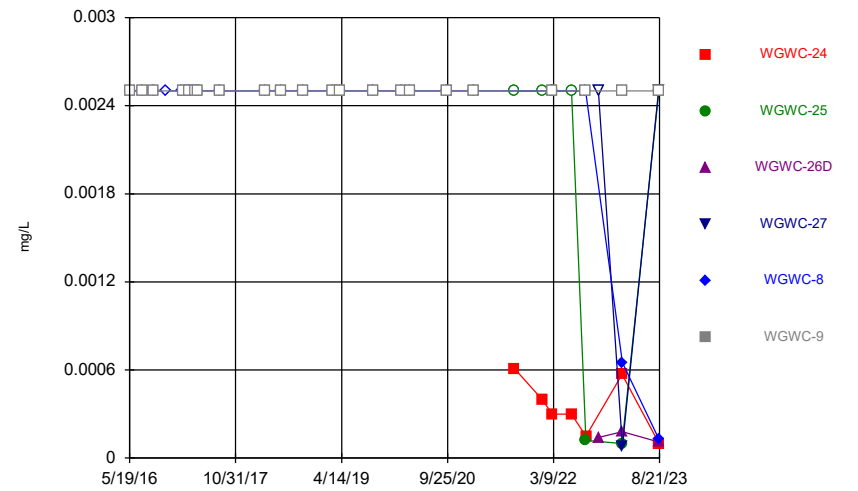
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Time Series



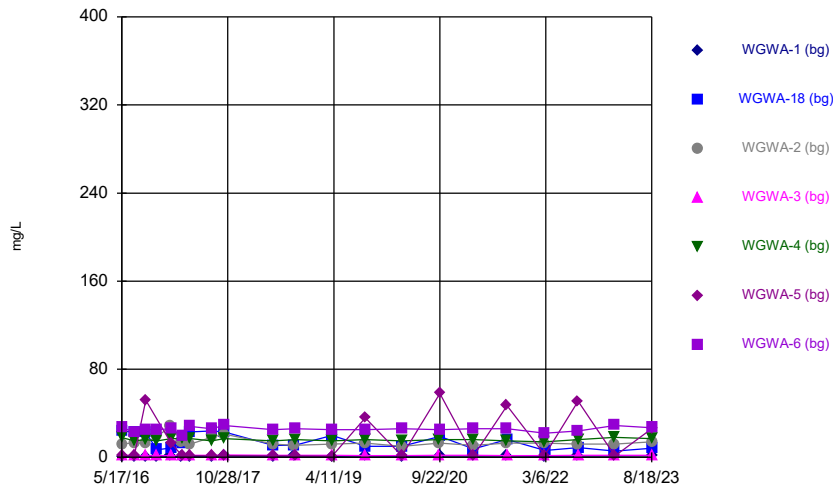
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Time Series



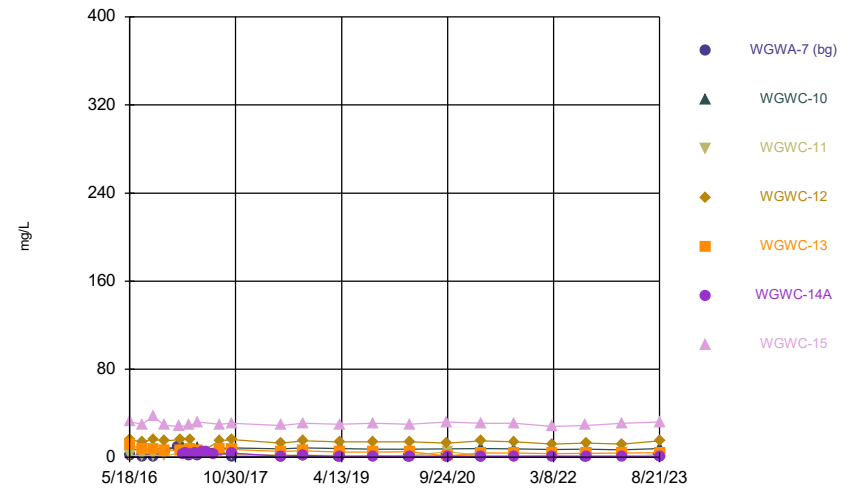
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Time Series



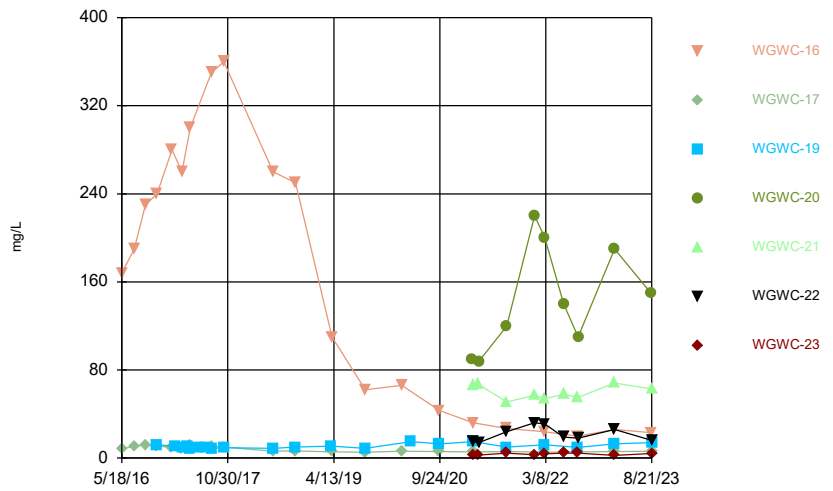
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Time Series



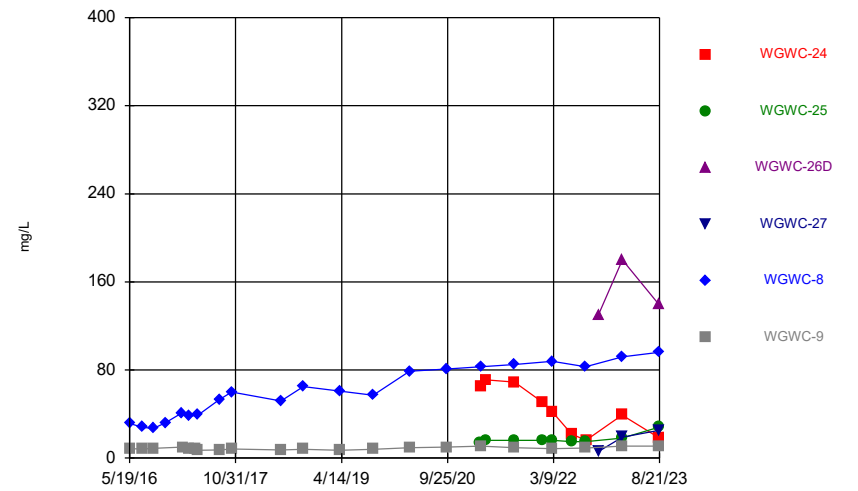
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Time Series



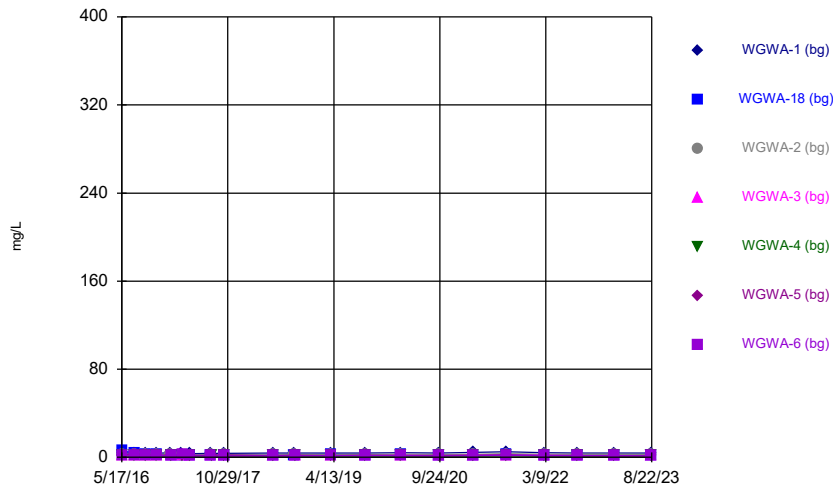
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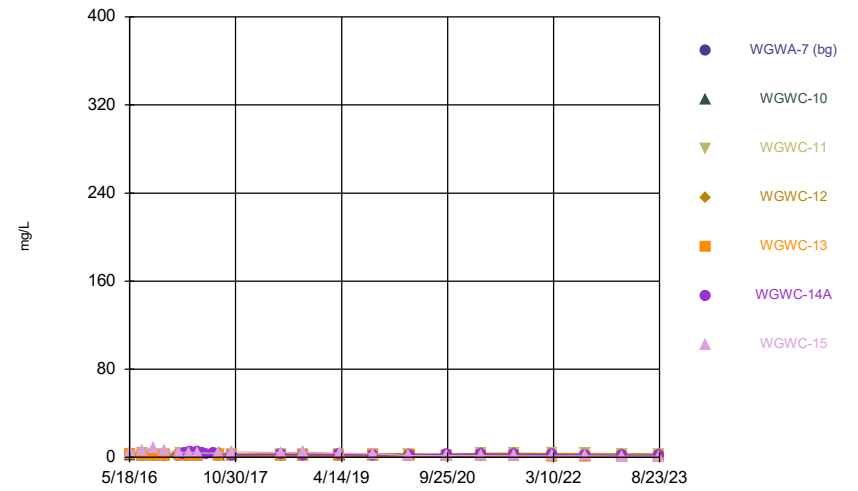
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Time Series



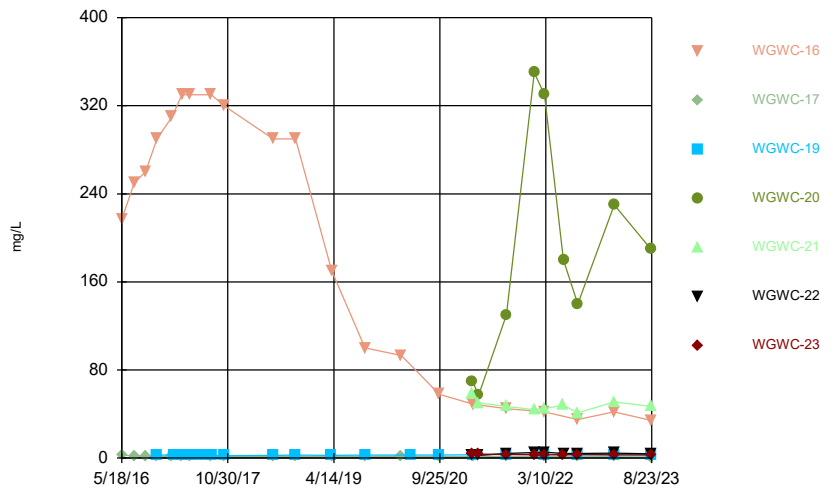
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Time Series



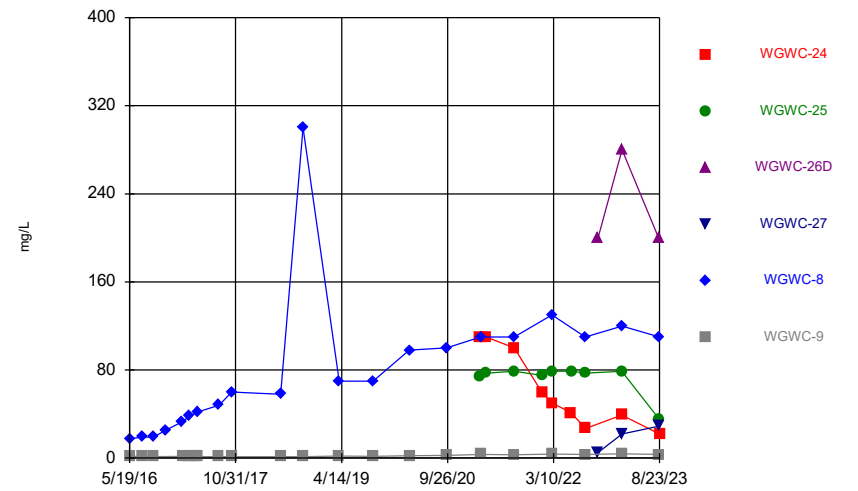
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Time Series



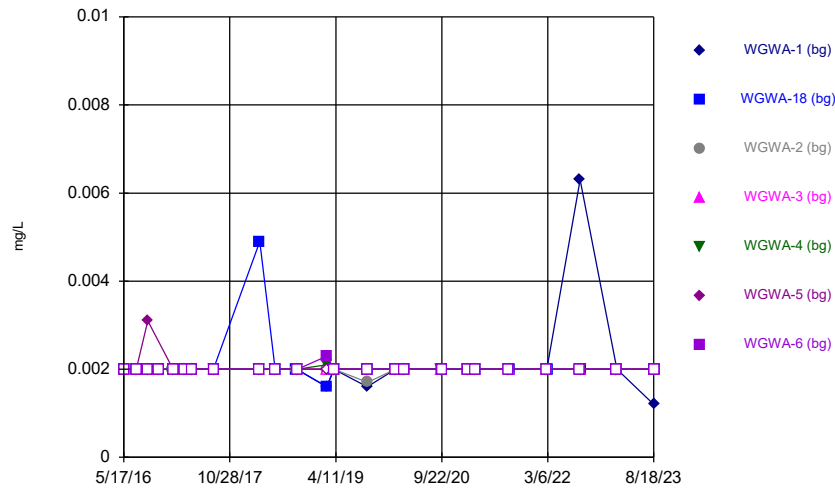
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Time Series



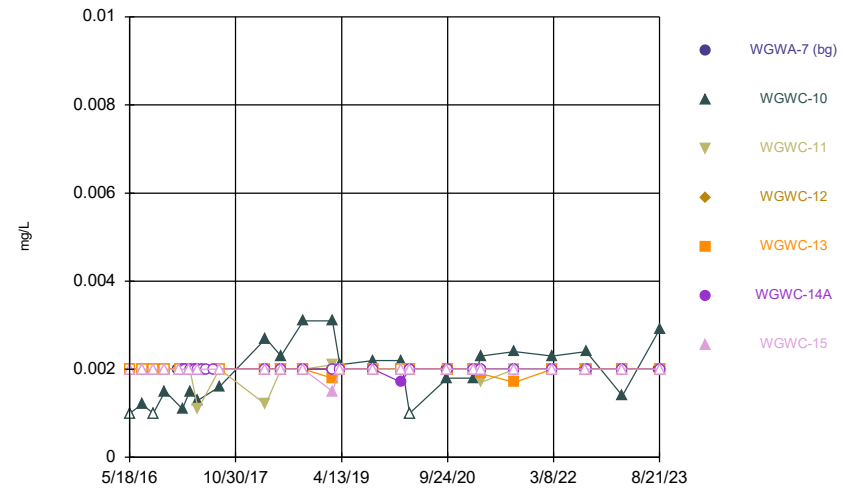
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Time Series



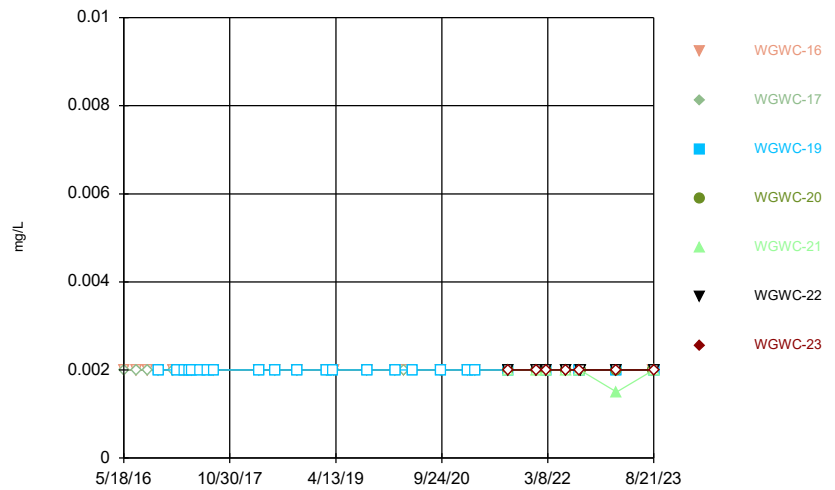
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Time Series



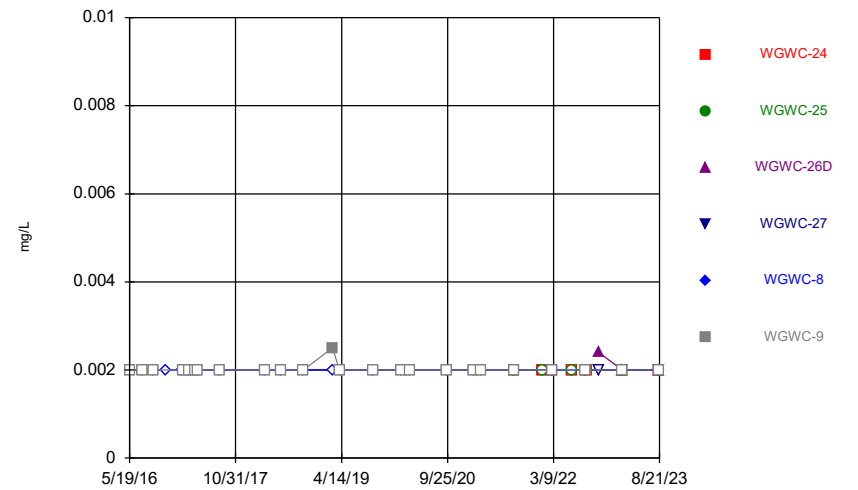
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



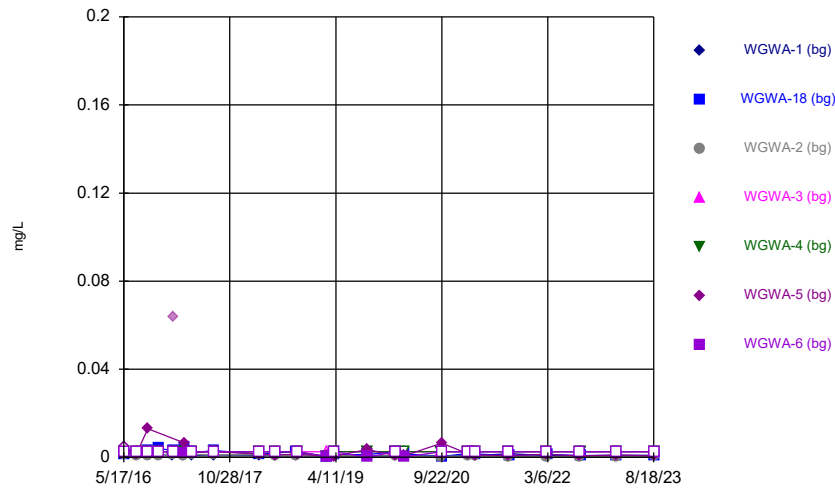
Constituent: Chromium Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



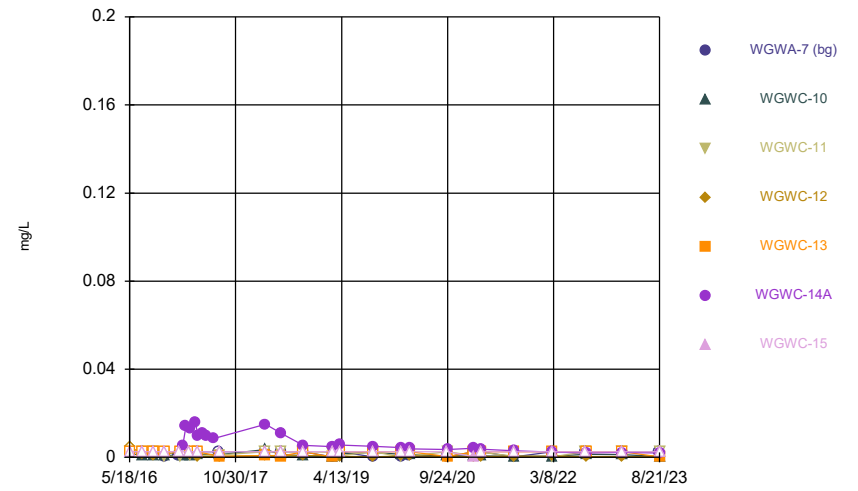
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



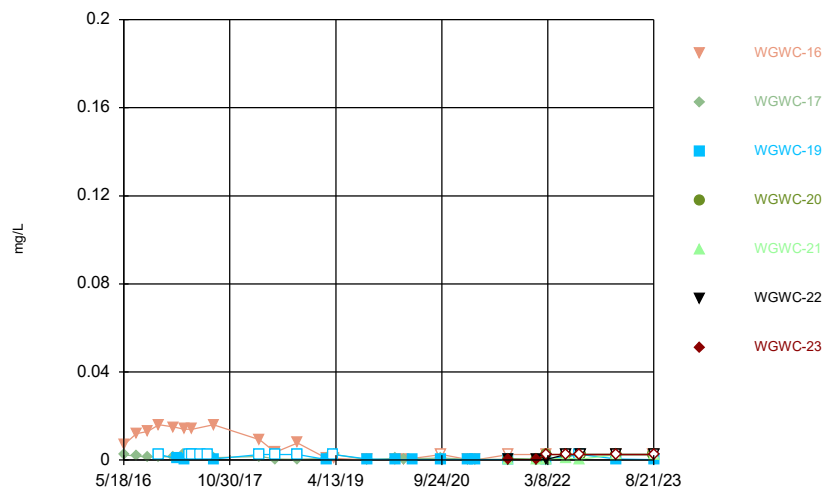
Constituent: Cobalt Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



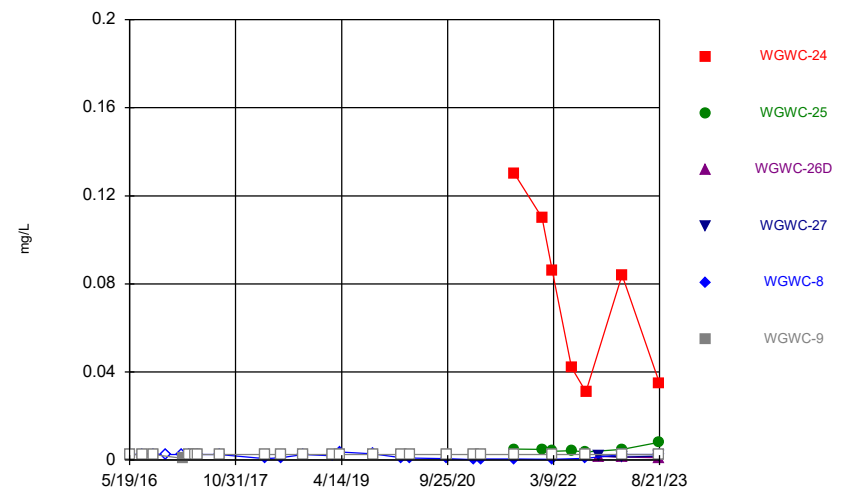
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



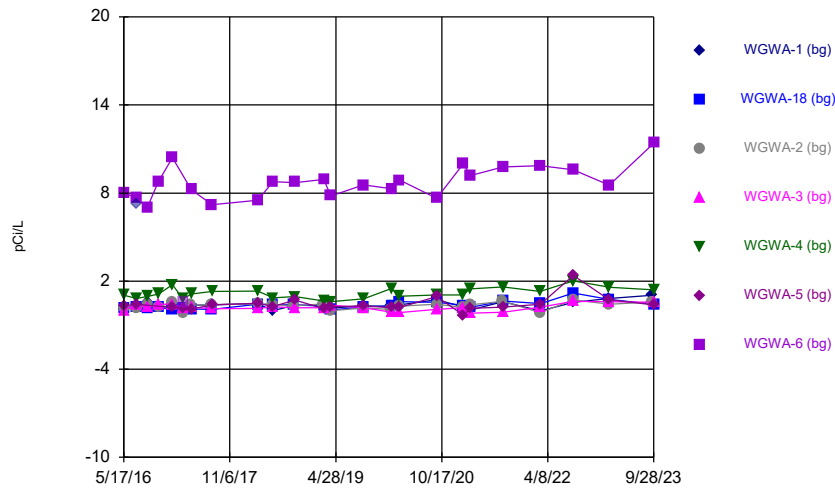
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



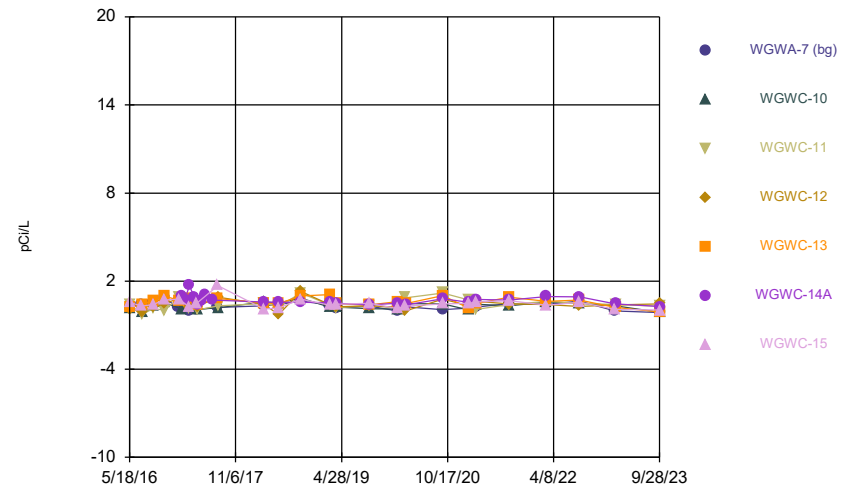
Constituent: Cobalt Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



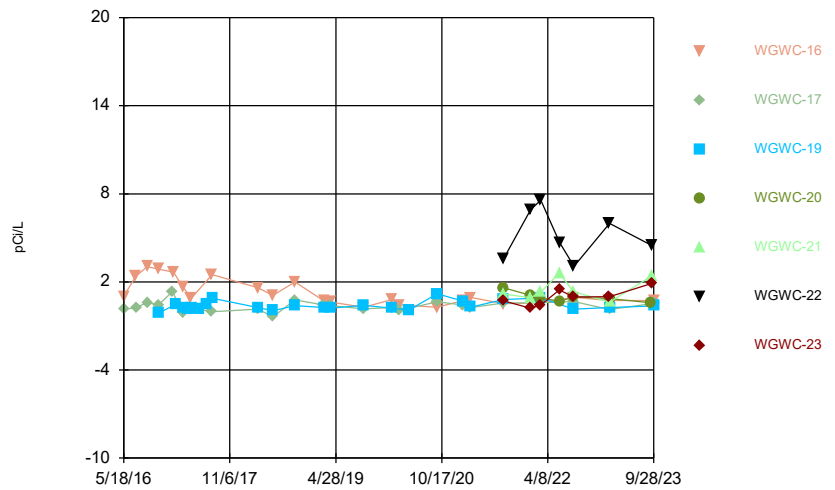
Constituent: Combined Radium 226 + 228 Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Pl
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



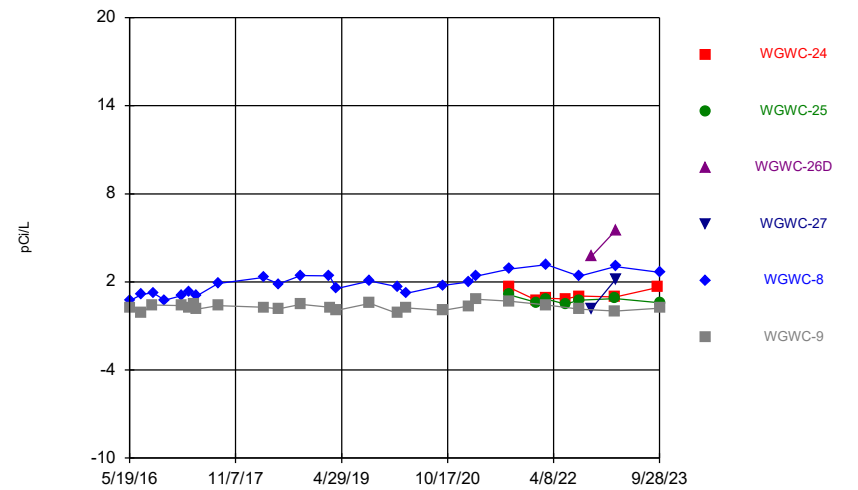
Constituent: Combined Radium 226 + 228 Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Pl
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



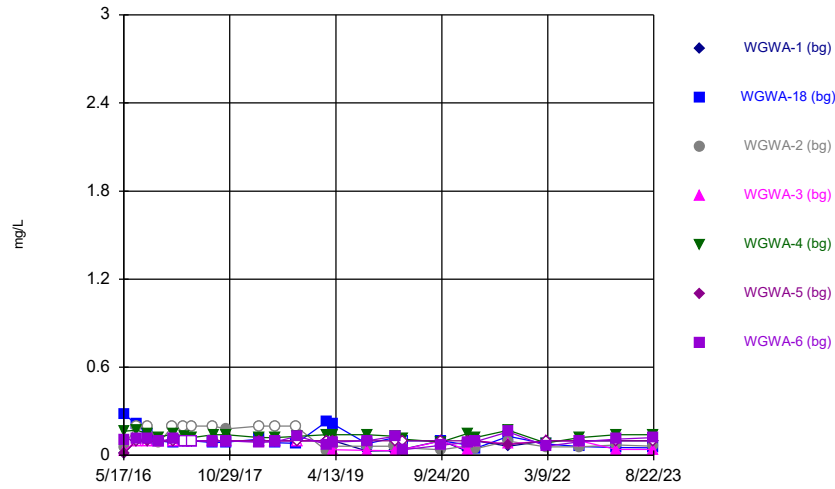
Constituent: Combined Radium 226 + 228 Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Pl
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



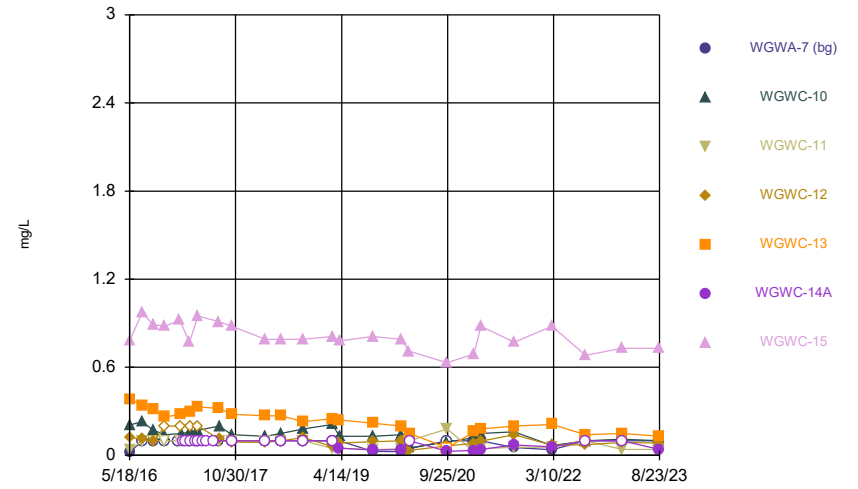
Constituent: Combined Radium 226 + 228 Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Pl
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



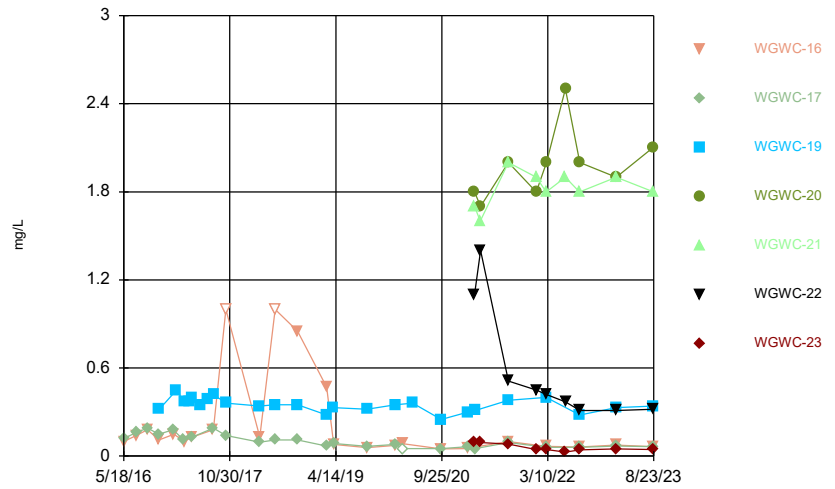
Constituent: Fluoride, total Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



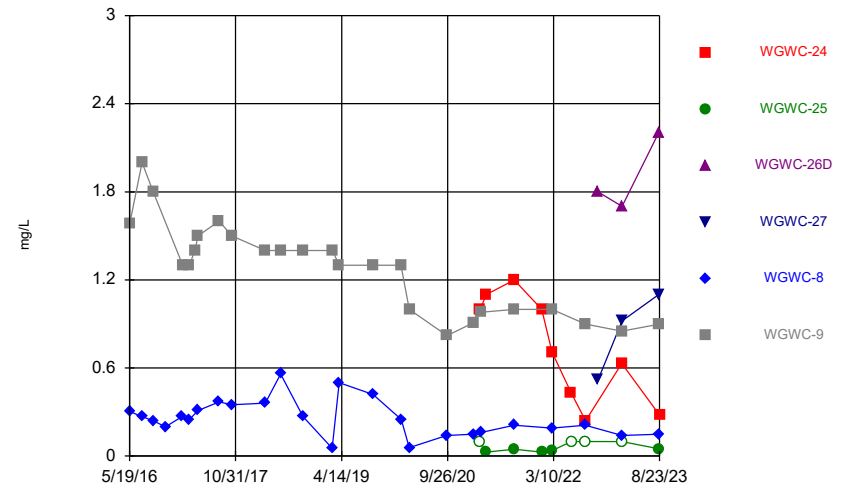
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



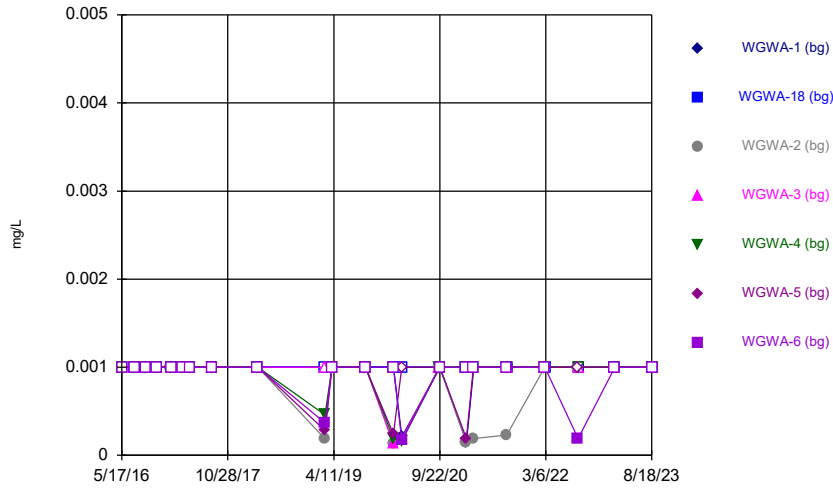
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



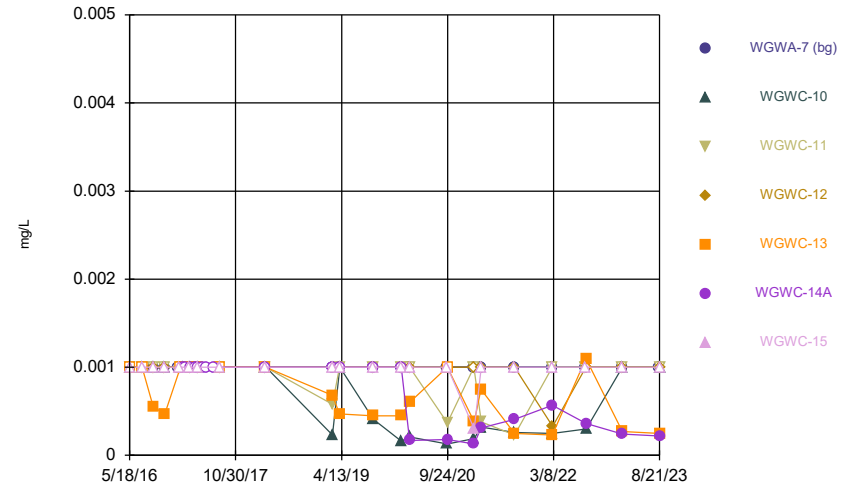
Constituent: Fluoride, total Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



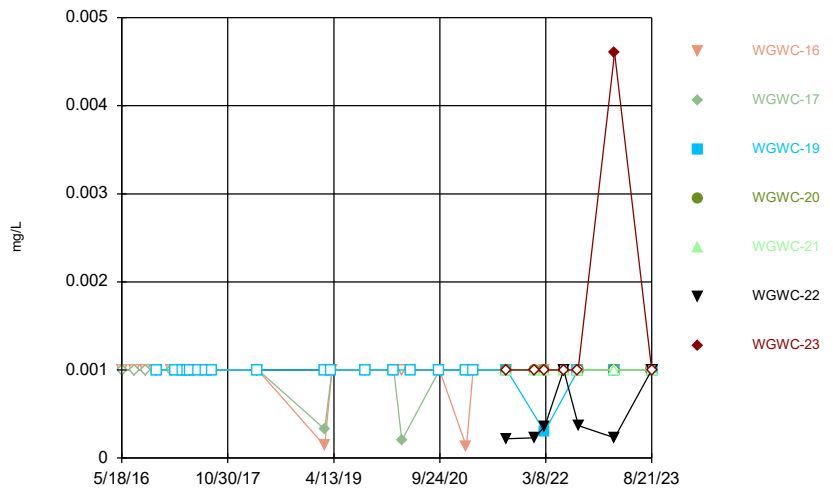
Constituent: Lead Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



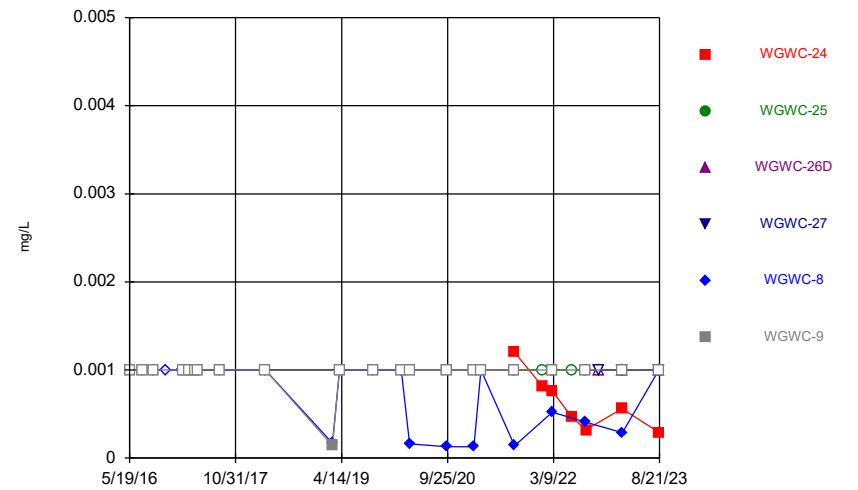
Constituent: Lead Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



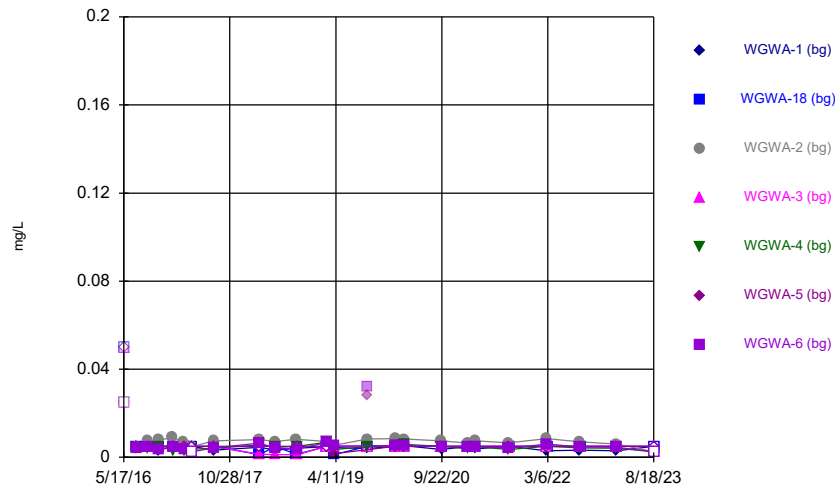
Constituent: Lead Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



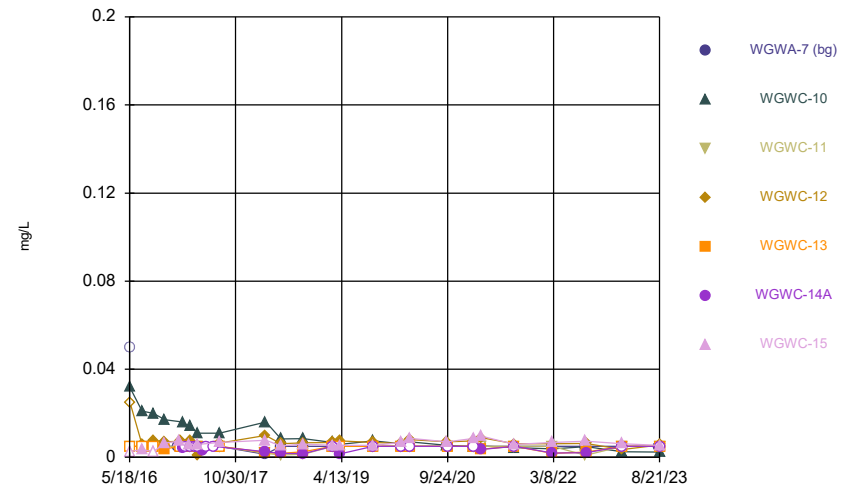
Constituent: Lead Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



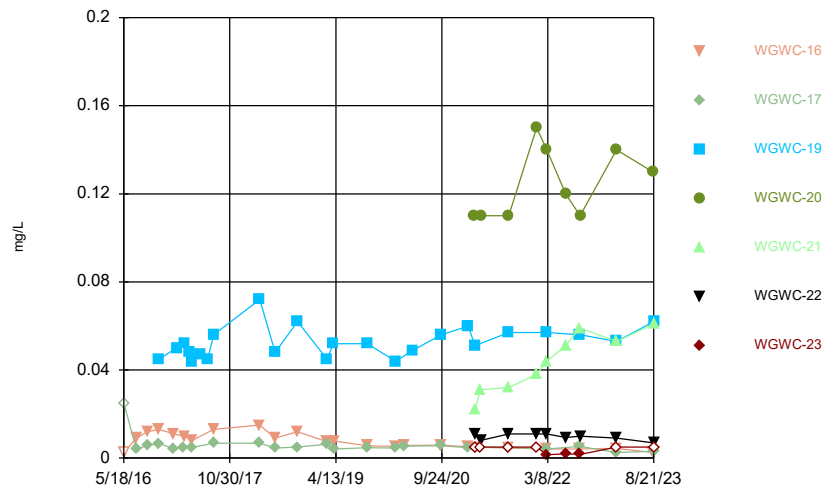
Constituent: Lithium Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



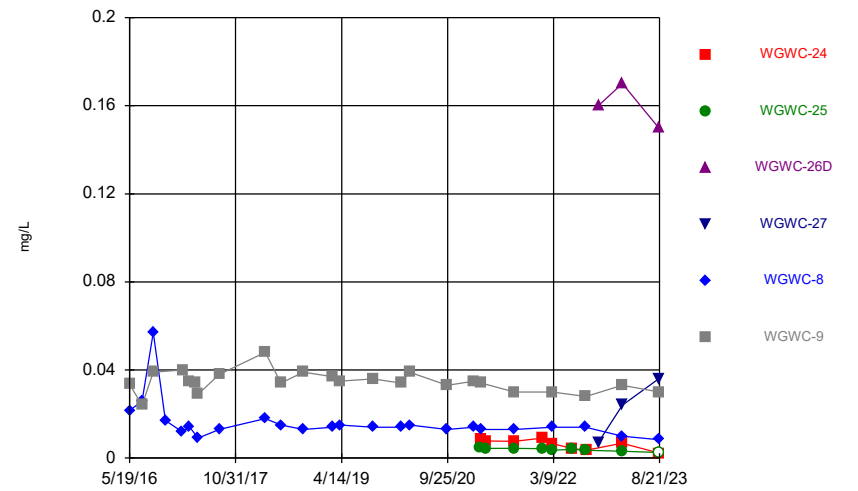
Constituent: Lithium Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



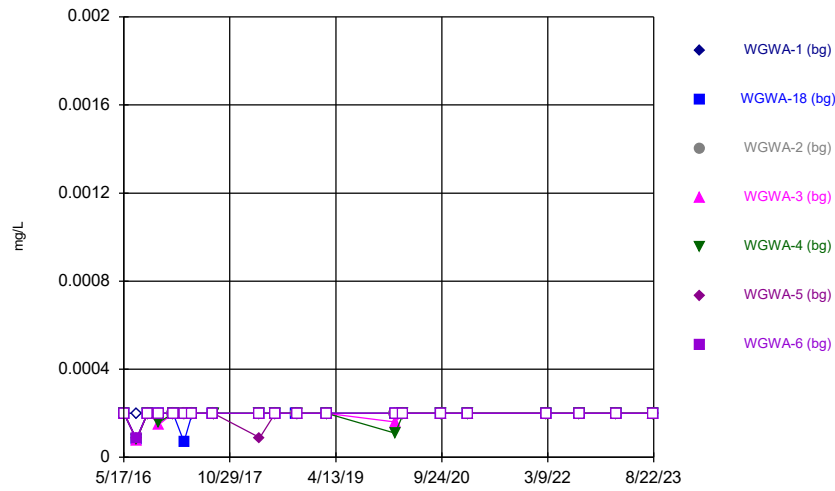
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



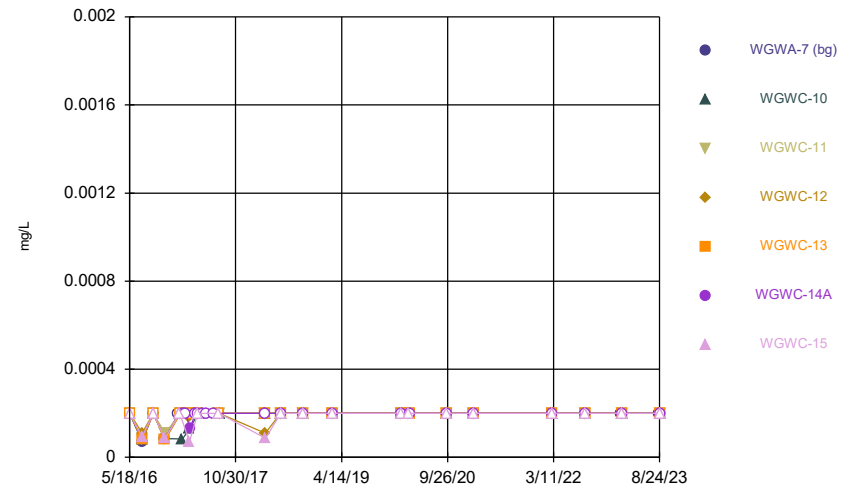
Constituent: Lithium Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



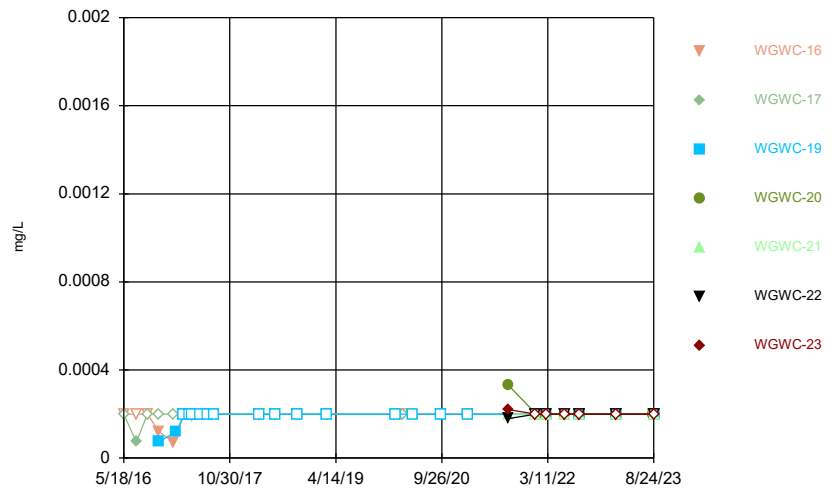
Constituent: Mercury Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



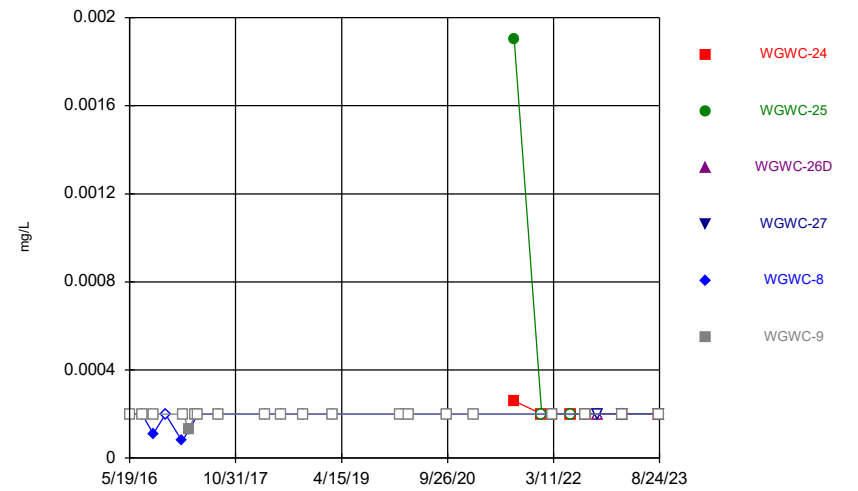
Constituent: Mercury Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



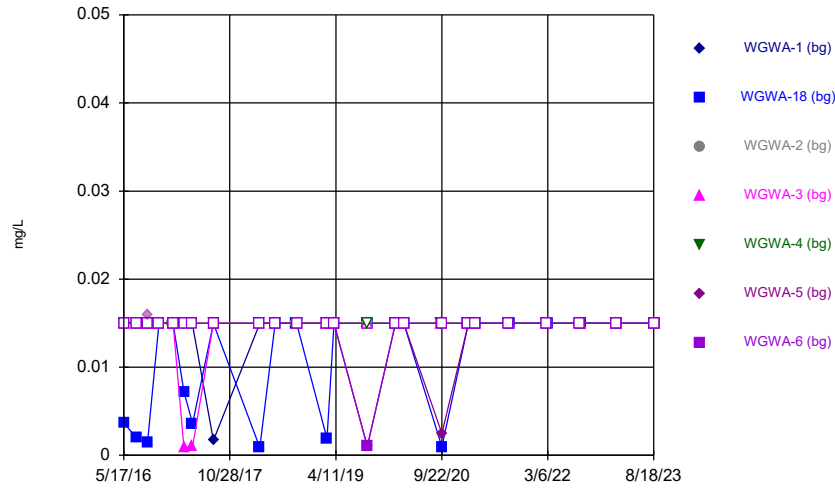
Constituent: Mercury Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



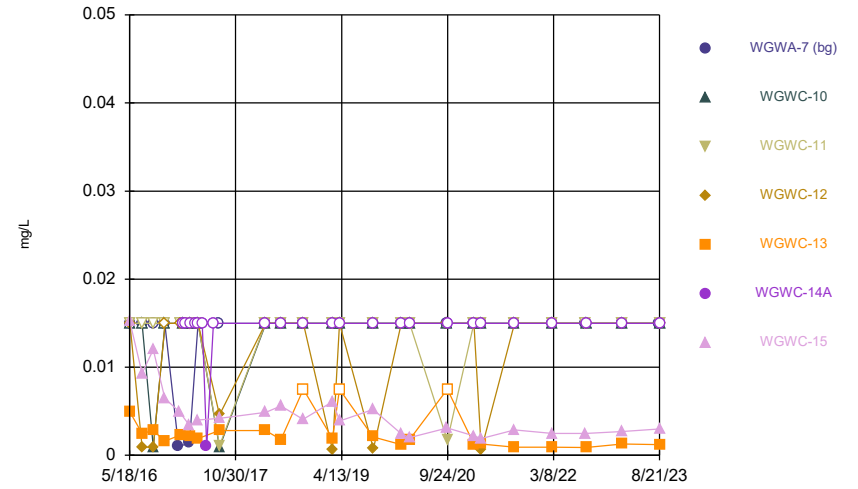
Constituent: Mercury Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



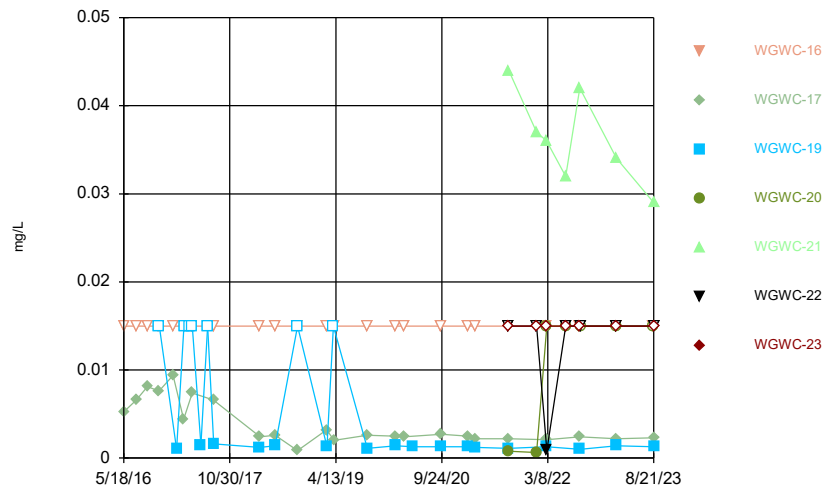
Constituent: Molybdenum Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



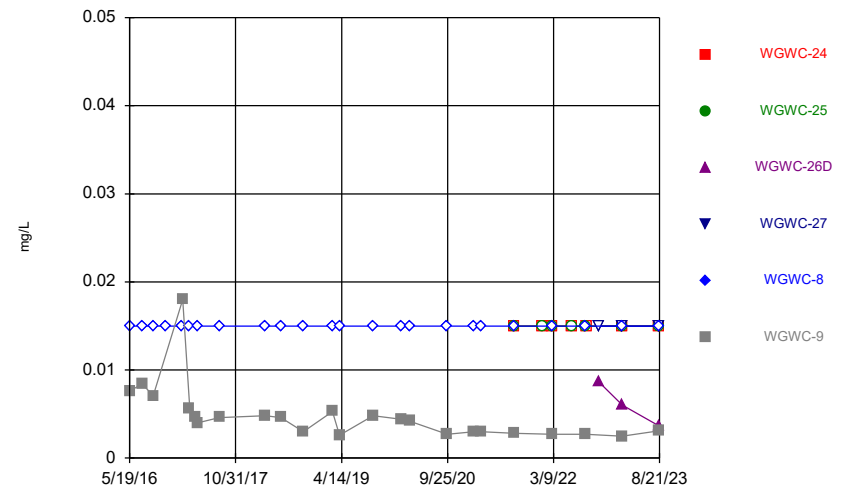
Constituent: Molybdenum Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



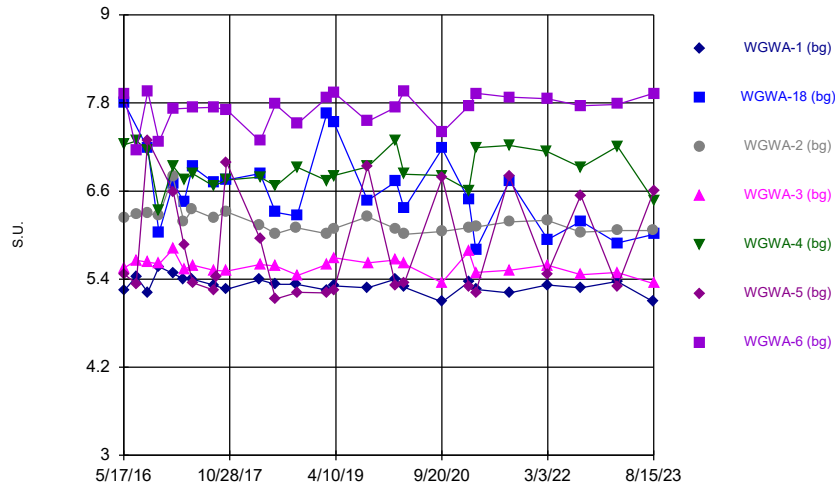
Constituent: Molybdenum Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



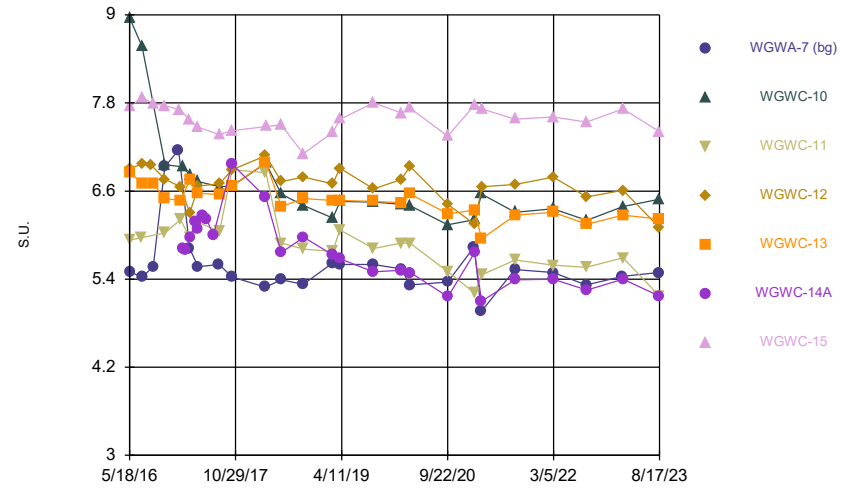
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



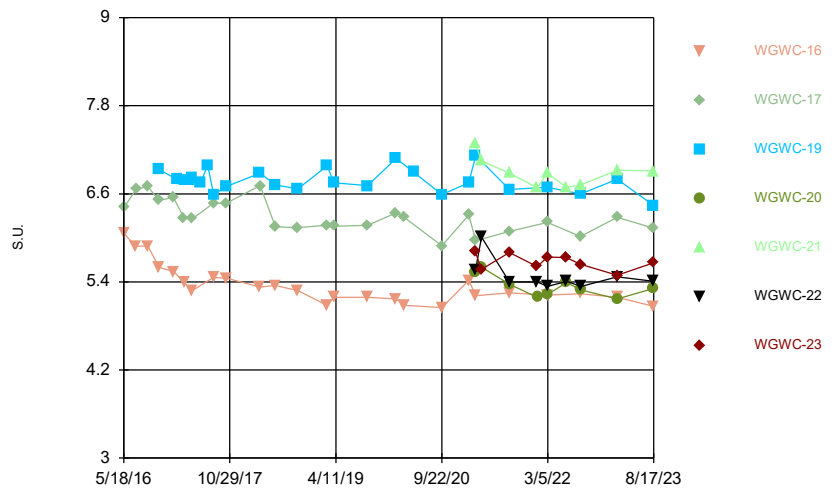
Constituent: pH, Field Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



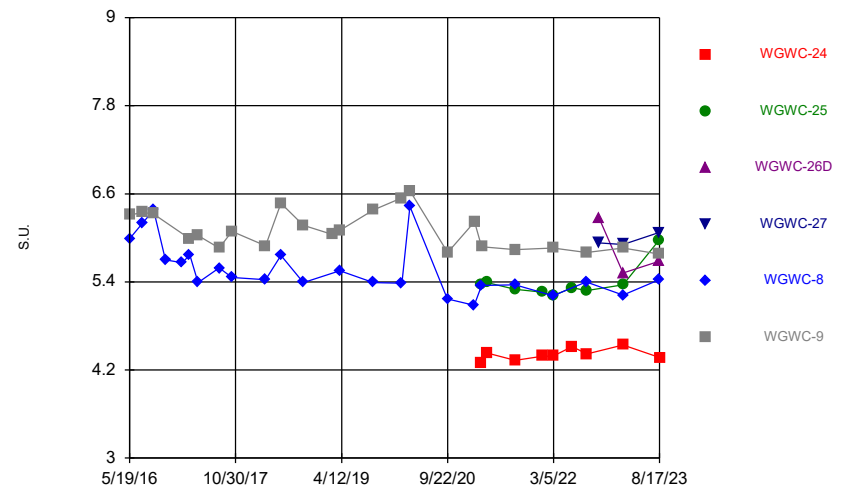
Constituent: pH, Field Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



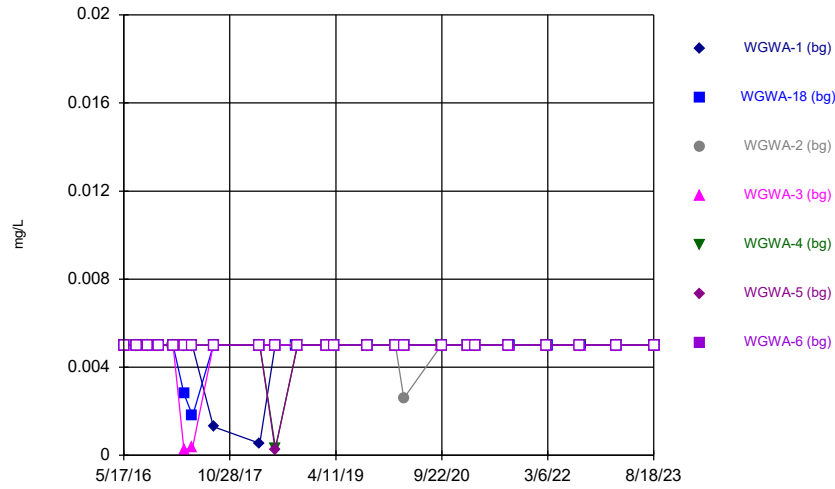
Constituent: pH, Field Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



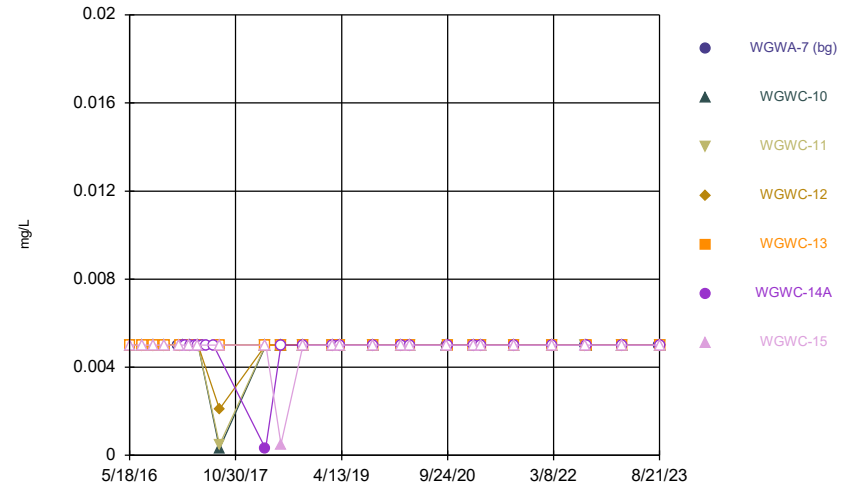
Constituent: pH, Field Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



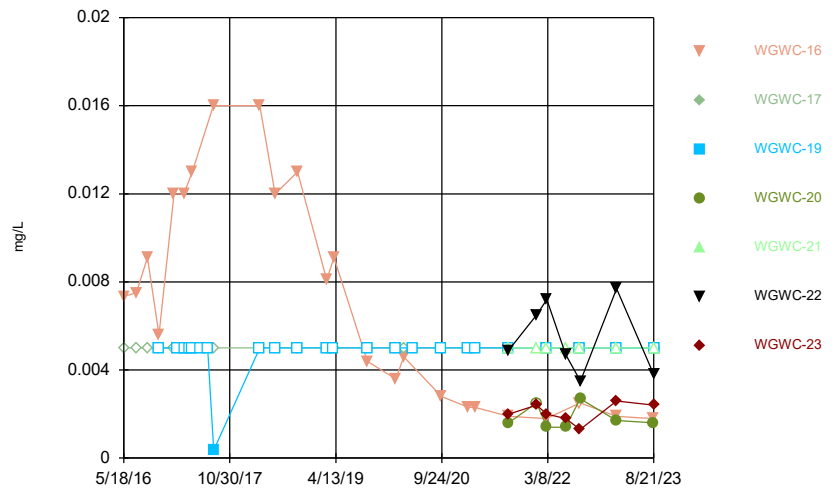
Constituent: Selenium Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



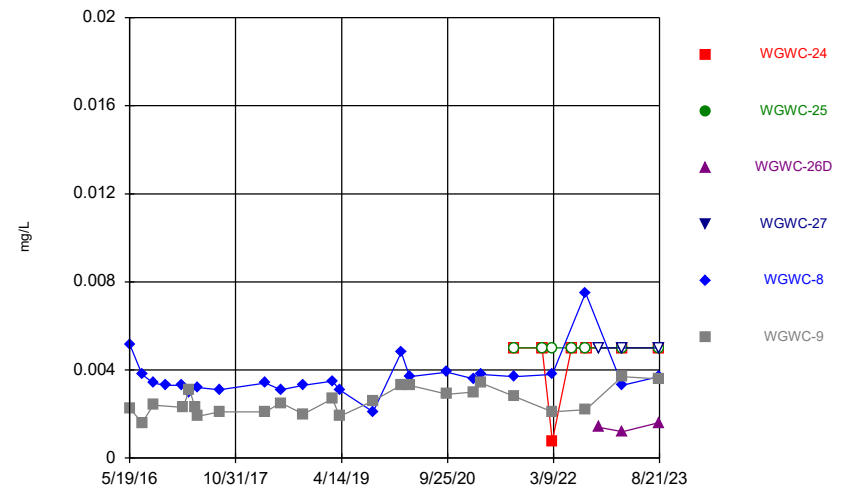
Constituent: Selenium Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



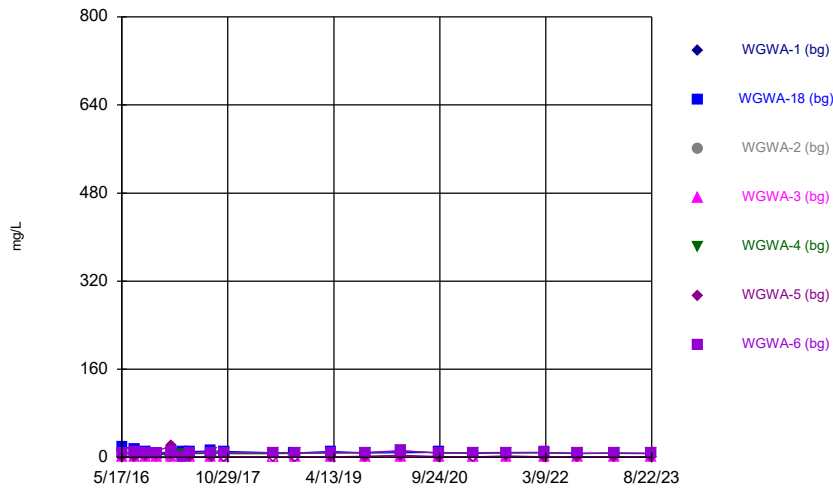
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



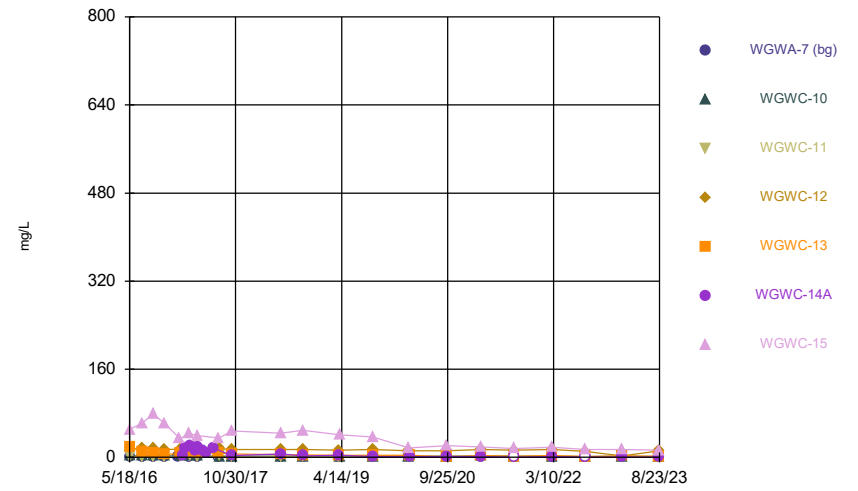
Constituent: Selenium Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



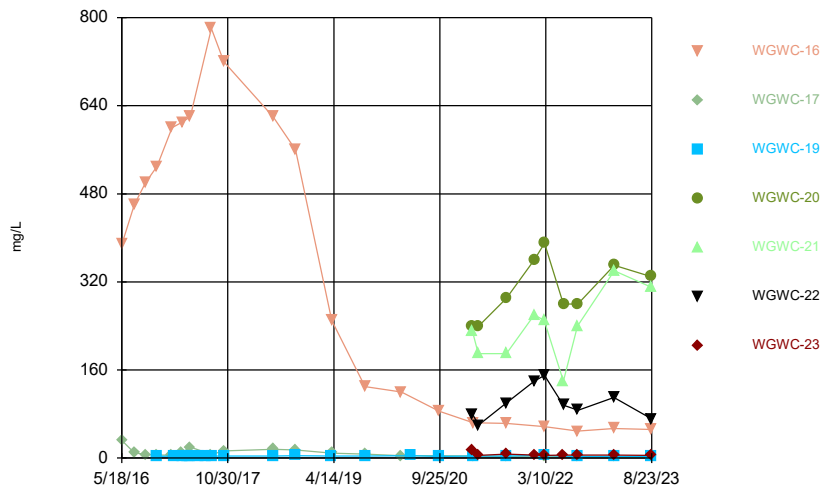
Constituent: Sulfate as SO4 Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



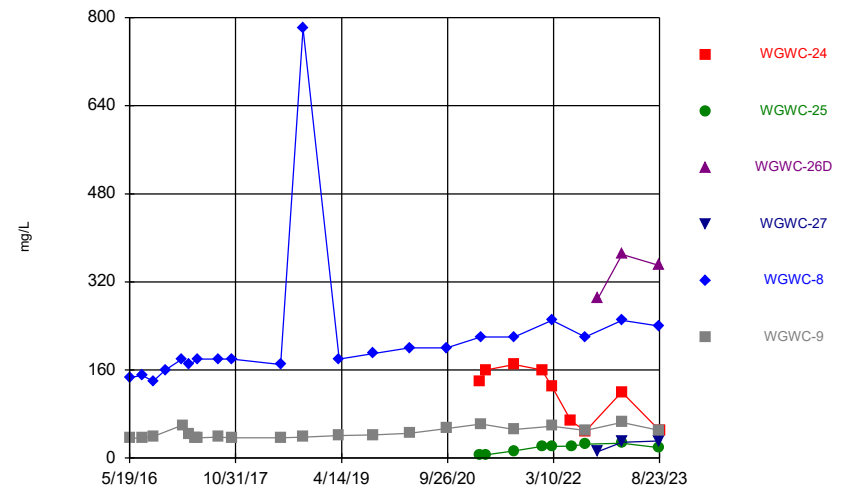
Constituent: Sulfate as SO4 Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



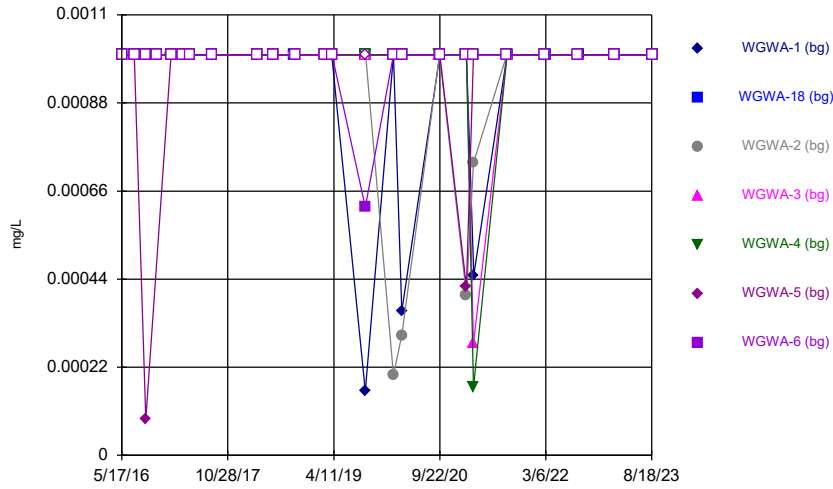
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



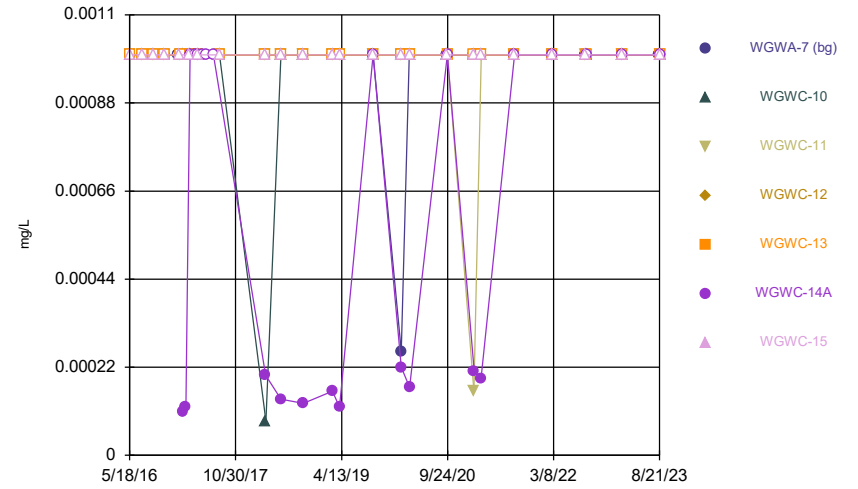
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



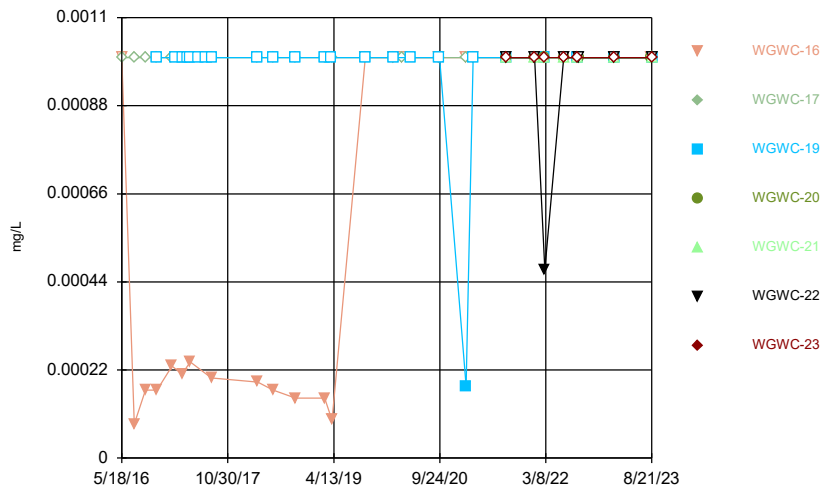
Constituent: Thallium Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



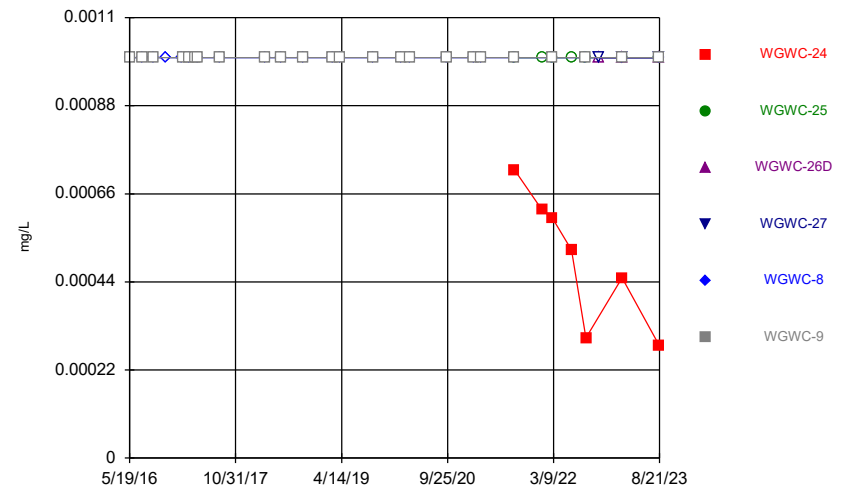
Constituent: Thallium Analysis Run 10/10/2023 12:21 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



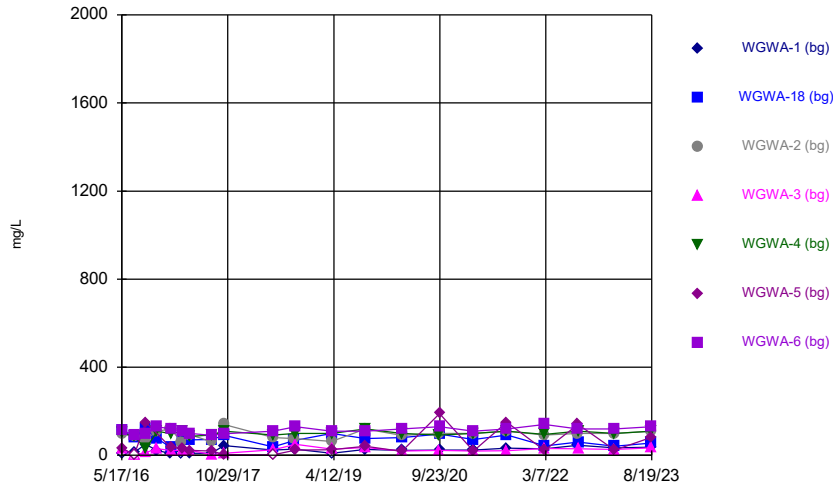
Constituent: Thallium Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



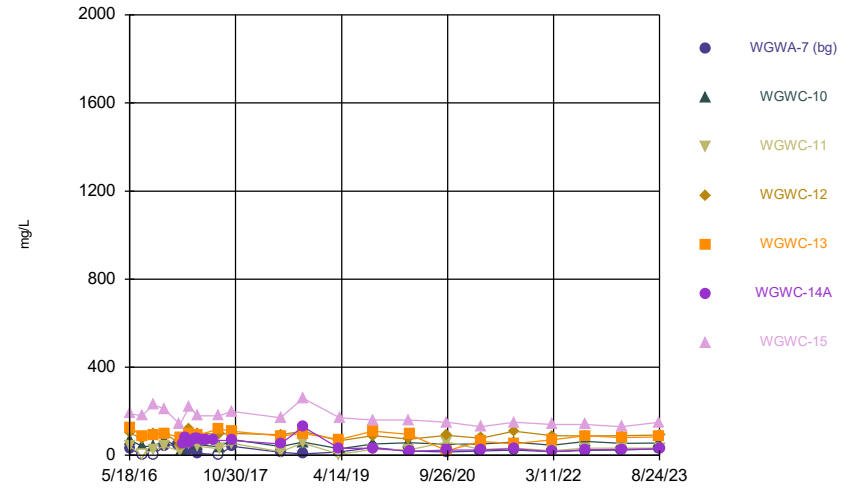
Constituent: Thallium Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



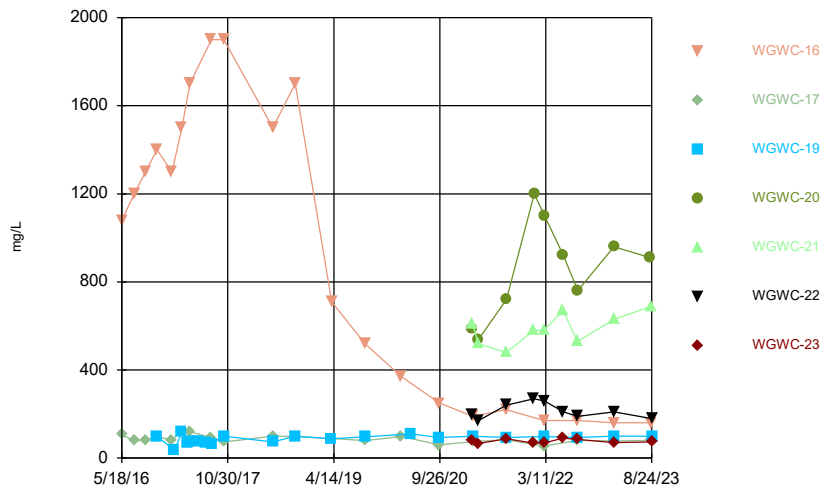
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Pl
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



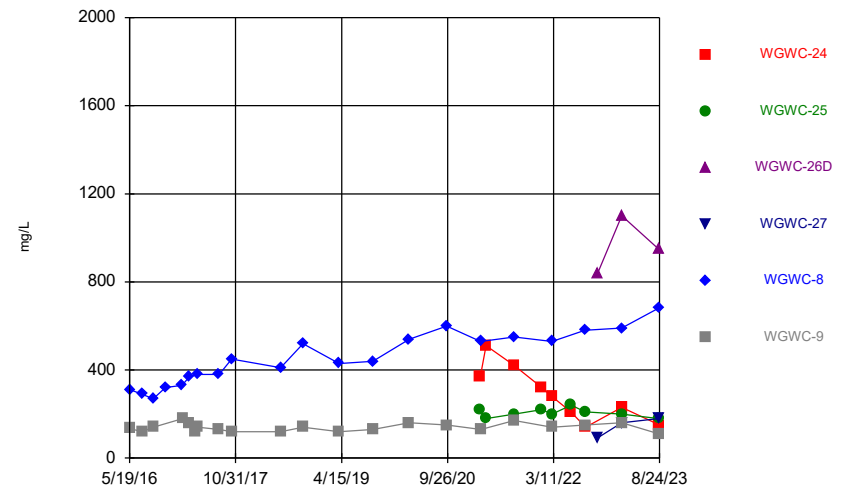
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Pl
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Pl
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Pl
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

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
8/23/2021			<0.002				
8/24/2021	<0.002				<0.002	<0.002	<0.002
8/25/2021		<0.002		<0.002			
2/28/2022					<0.002		
3/1/2022	<0.002		<0.002	<0.002		<0.002	<0.002
3/3/2022		<0.002					
8/15/2022	<0.002		<0.002			<0.002	<0.002
8/16/2022		<0.002		<0.002	0.00051 (J)		
2/14/2023	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
2/15/2023					<0.002		
8/18/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.002	<0.002					<0.002
5/19/2016			<0.002	<0.002	<0.002		
7/19/2016	<0.002						<0.002
7/20/2016		<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
11/10/2016	<0.002				<0.002		<0.002
11/11/2016		<0.002	<0.002	<0.002			
1/18/2017	<0.002						
1/24/2017							<0.002
1/27/2017			<0.002	<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	<0.002	<0.002		
3/17/2017						<0.002	
4/11/2017						<0.002	
4/25/2017	<0.002						<0.002
4/26/2017		<0.002	<0.002	<0.002	<0.002	<0.002	
5/17/2017						<0.002	
6/7/2017						<0.002	
7/11/2017						<0.002	
8/8/2017	<0.002						
8/9/2017					<0.002		<0.002
8/10/2017		<0.002	<0.002	0.0023 (J)			
3/28/2018	<0.002						
3/29/2018			<0.002	<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	<0.002	<0.002	<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			<0.002
3/19/2020					<0.002	<0.002	
2/2/2021	<0.002						
2/3/2021			<0.002	<0.002			
2/4/2021		<0.002			<0.002	<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
8/24/2021	<0.002						
8/25/2021			<0.002	<0.002	<0.002	<0.002	
8/26/2021		<0.002					<0.002
3/3/2022	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002
3/4/2022				<0.002			
8/16/2022	<0.002		0.00053 (J)				
8/17/2022							<0.002
8/18/2022				<0.002	<0.002		
8/19/2022		<0.002				<0.002	
2/14/2023	<0.002						

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/15/2023							<0.002
2/16/2023		<0.002	<0.002	<0.002	<0.002	<0.002	
8/18/2023	<0.002						
8/21/2023		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.002	<0.002					
7/19/2016	<0.002						
7/20/2016		<0.002					
9/14/2016	<0.002	<0.002					
11/10/2016	<0.002	<0.002					
11/11/2016			<0.002				
1/20/2017		<0.002					
1/24/2017	<0.002						
2/6/2017			<0.002				
3/14/2017		<0.002					
3/15/2017	<0.002		<0.002				
4/11/2017			<0.002				
4/25/2017	<0.002	<0.002					
4/26/2017			<0.002				
6/7/2017			<0.002				
7/11/2017			<0.002				
8/9/2017	<0.002	<0.002					
8/10/2017			<0.002				
3/29/2018	<0.002		<0.002				
3/30/2018		<0.002					
2/26/2019		<0.002					
2/27/2019	<0.002						
2/28/2019			<0.002				
2/7/2020	<0.002	<0.002	<0.002				
3/18/2020	<0.002	<0.002					
5/4/2020			<0.002				
2/3/2021			<0.002				
2/4/2021	<0.002	<0.002					
3/11/2021	<0.002	<0.002	<0.002				
8/25/2021	<0.002	<0.002					
8/26/2021			<0.002	<0.002	0.00076 (J)	<0.002	<0.002
1/11/2022					<0.002	0.00078 (J)	0.0012 (J)
1/12/2022				0.00066 (J)			
3/3/2022	<0.002		<0.002		0.00053 (J)		
3/4/2022		<0.002		0.0011 (J)		0.00082 (J)	0.0018 (J)
6/6/2022					<0.002		0.0013 (J)
6/7/2022				<0.002		0.00054 (J)	
8/16/2022		<0.002			0.00055 (J)		
8/17/2022	<0.002		0.00058 (J)				<0.002
8/18/2022				<0.002			
8/19/2022						<0.002	
2/15/2023	<0.002					0.0012 (J)	0.0022
2/16/2023		<0.002	<0.002	<0.002	<0.002		
8/15/2023				0.00069 (J)			
8/18/2023	<0.002						
8/21/2023		<0.002	<0.002		<0.002	<0.002	<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					<0.002	<0.002
7/20/2016					<0.002	<0.002
9/14/2016						<0.002
9/15/2016					<0.002	
11/14/2016					<0.002	
2/6/2017					<0.002	
2/9/2017						<0.002
3/15/2017					<0.002	0.0011 (J)
4/11/2017						<0.002
4/26/2017					<0.002	<0.002
8/10/2017					<0.002	<0.002
3/29/2018					<0.002	<0.002
2/27/2019					<0.002	
2/28/2019						<0.002
2/5/2020						<0.002
2/7/2020					<0.002	
3/19/2020					<0.002	0.00041 (J)
2/3/2021					<0.002	
2/4/2021						0.00041 (J)
3/11/2021					<0.002	
3/12/2021						<0.002
8/26/2021	<0.002	<0.002			<0.002	<0.002
1/11/2022	<0.002	<0.002				
3/3/2022	<0.002				<0.002	0.008
3/4/2022		<0.002				
6/6/2022	<0.002					
6/7/2022		<0.002				
8/16/2022					0.011	
8/17/2022		<0.002				0.0043
8/18/2022	<0.002					
10/19/2022			<0.002	<0.002		
2/15/2023	<0.002	<0.002				0.00048 (J)
2/16/2023			<0.002	0.00047 (J)	0.00064 (J)	
8/15/2023			0.0009 (J)	0.0015 (J)		
8/18/2023		<0.002			0.0079	
8/21/2023	<0.002					0.0011 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 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
8/23/2021			<0.001				
8/24/2021	<0.001				<0.001	<0.001	<0.001
8/25/2021		<0.001		<0.001			
2/28/2022					<0.001		
3/1/2022	<0.001		<0.001	<0.001		<0.001	<0.001
3/3/2022		<0.001					
8/15/2022	<0.001		<0.001			<0.001	<0.001
8/16/2022		<0.001		<0.001	<0.001		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
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)
2/14/2023	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
2/15/2023					<0.001		
8/18/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001	<0.001					0.00345
5/19/2016			<0.001	<0.001	<0.001		
7/19/2016	<0.001						0.0031
7/20/2016		<0.001	<0.001	<0.001	<0.001		
9/13/2016	<0.001						
9/14/2016		<0.001	<0.001	<0.001	<0.001		0.0024
11/10/2016	<0.001				<0.001		0.0023
11/11/2016		<0.001	<0.001	<0.001			
1/18/2017	0.001 (J)						
1/24/2017							0.0019
1/27/2017			0.00047 (J)	<0.001	0.00066 (J)		
2/6/2017		<0.001					
2/8/2017						<0.001	
2/23/2017						<0.001	
3/14/2017	<0.001						0.0016
3/15/2017		<0.001	<0.001	<0.001	<0.001		
3/17/2017						0.0006 (J)	
4/11/2017						0.0032	
4/25/2017	<0.001						0.0019
4/26/2017		<0.001	<0.001	<0.001	<0.001	0.0019	
5/17/2017						0.0014	
6/7/2017						0.0021	
7/11/2017						0.00095 (J)	
8/8/2017	<0.001						
8/9/2017					<0.001		0.0017
8/10/2017		<0.001	<0.001	0.00048 (J)			
3/28/2018	<0.001						
3/29/2018			<0.001	<0.001	0.00067 (J)	<0.001	
3/30/2018		<0.001					0.0018
6/14/2018	0.0005 (J)	0.0005 (J)	<0.001	0.00052 (J)	0.00093 (J)	<0.001	0.002
10/3/2018	<0.001						0.0024
10/4/2018		0.00089 (J)	0.00054 (J)	<0.001	0.0015	0.0017	
2/26/2019	<0.001						
2/27/2019		<0.001	<0.001	<0.001	0.00036 (J)	<0.001	0.0015
4/2/2019	<0.001						
4/3/2019			<0.001	<0.001	0.00053 (J)	<0.001	
4/4/2019		<0.001					0.0019
9/18/2019	<0.001				0.00039 (J)	<0.001	0.0016
9/19/2019		0.00038 (J)	<0.001	<0.001			
2/5/2020	<0.001	0.00035 (J)	<0.001	<0.001	0.00048 (J)	<0.001	
2/7/2020							0.001
3/17/2020	<0.001						
3/18/2020		<0.001	<0.001	<0.001			0.00088 (J)
3/19/2020					0.00039 (J)	<0.001	
9/22/2020	<0.001						
9/23/2020		<0.001		<0.001			0.00061 (J)
9/24/2020			0.00051 (J)		<0.001	<0.001	
2/2/2021	<0.001						
2/3/2021			<0.001	<0.001			
2/4/2021		<0.001			0.00038 (J)	<0.001	0.00069 (J)
3/10/2021	<0.001						
3/11/2021		0.00031 (J)			0.00035 (J)	<0.001	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.001	<0.001			0.00084 (J)
8/24/2021	<0.001						
8/25/2021			<0.001	<0.001	<0.001	<0.001	
8/26/2021		<0.001					0.0012
3/3/2022	<0.001	<0.001	<0.001		<0.001	<0.001	0.00057 (J)
3/4/2022				0.00037 (J)			
8/16/2022	<0.001		<0.001				
8/17/2022							0.00052 (J)
8/18/2022				<0.001	0.00034 (J)		
8/19/2022		<0.001				<0.001	
2/14/2023	<0.001						
2/15/2023							<0.001
2/16/2023		<0.001	<0.001	<0.001	<0.001	<0.001	
8/18/2023	<0.001						
8/21/2023		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.001	<0.001					
7/19/2016	0.0009 (J)						
7/20/2016		0.00058 (J)					
9/14/2016	0.0014	<0.001					
11/10/2016	0.0021	0.00082 (J)					
11/11/2016			<0.001				
1/20/2017		<0.001					
1/24/2017	0.0015						
2/6/2017			<0.001				
3/14/2017		<0.001					
3/15/2017	0.0014		<0.001				
4/11/2017			<0.001				
4/25/2017	0.0014	0.00095 (J)					
4/26/2017			<0.001				
6/7/2017			<0.001				
7/11/2017			<0.001				
8/9/2017	0.0013	<0.001					
8/10/2017			<0.001				
3/29/2018	0.0014		<0.001				
3/30/2018		<0.001					
6/14/2018	<0.001	0.00076 (J)	<0.001				
10/4/2018	0.0013	0.00088 (J)	<0.001				
2/26/2019		0.0005 (J)					
2/27/2019	0.00046 (J)						
2/28/2019			<0.001				
4/2/2019			<0.001				
4/4/2019	<0.001	<0.001					
9/18/2019	<0.001	<0.001	<0.001				
2/7/2020	<0.001	0.00075 (J)	<0.001				
3/18/2020	<0.001	0.00054 (J)					
5/4/2020			<0.001				
9/23/2020	<0.001	0.00067 (J)	<0.001				
2/3/2021			<0.001				
2/4/2021	<0.001	0.00035 (J)					
3/11/2021	<0.001	<0.001	<0.001				
8/25/2021	<0.001	<0.001					
8/26/2021			<0.001	0.00031 (J)	0.00057 (J)	<0.001	<0.001
1/11/2022					0.00036 (J)	<0.001	<0.001
1/12/2022				0.00052 (J)			
3/3/2022	<0.001		<0.001		0.00053 (J)		
3/4/2022		<0.001		0.00078 (J)		0.00046 (J)	<0.001
6/6/2022					0.00083 (J)		<0.001
6/7/2022				0.00033 (J)		0.00029 (J)	
8/16/2022		<0.001			0.00028 (J)		
8/17/2022	<0.001		<0.001				<0.001
8/18/2022				<0.001			
8/19/2022						<0.001	
2/15/2023	<0.001					<0.001	<0.001
2/16/2023		<0.001	<0.001	<0.001	<0.001		
8/15/2023				<0.001			
8/18/2023	<0.001						
8/21/2023		<0.001	<0.001		<0.001	<0.001	<0.001

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					<0.001	<0.001
7/20/2016					0.00055 (J)	0.00078 (J)
9/14/2016						<0.001
9/15/2016					<0.001	
11/14/2016					<0.001	
2/6/2017					<0.001	
2/9/2017						0.0017
3/15/2017					<0.001	0.00047 (J)
4/11/2017						<0.001
4/26/2017					<0.001	<0.001
8/10/2017					<0.001	<0.001
3/29/2018					<0.001	<0.001
6/14/2018					<0.001	<0.001
10/4/2018					0.0015	<0.001
2/27/2019					0.00047 (J)	
2/28/2019						<0.001
4/3/2019					<0.001	<0.001
9/19/2019					0.00032 (J)	<0.001
2/5/2020						<0.001
2/7/2020					0.0011	
3/19/2020					0.00071 (J)	<0.001
9/22/2020					0.0011	
9/23/2020						<0.001
2/3/2021					0.0013	
2/4/2021						<0.001
3/11/2021					0.0009 (J)	
3/12/2021						<0.001
8/26/2021	0.0033	<0.001			0.0013	<0.001
1/11/2022	0.0017	<0.001				
3/3/2022	0.0029				0.0014	<0.001
3/4/2022		<0.001				
6/6/2022	0.00054 (J)					
6/7/2022		<0.001				
8/16/2022					0.00097 (J)	
8/17/2022		<0.001				<0.001
8/18/2022	0.00028 (J)					
10/19/2022			<0.001	<0.001		
2/15/2023	<0.001	<0.001				<0.001
2/16/2023			<0.001	<0.001	<0.001	
8/15/2023			<0.001	<0.001		
8/18/2023		<0.001			0.00087 (J)	
8/21/2023	<0.001					<0.001

Time Series

Constituent: Barium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 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)
8/23/2021			0.023				
8/24/2021	0.049				0.0055 (J)	0.028	0.0074 (J)
8/25/2021		0.015		0.014			
2/28/2022					0.0053 (J)		
3/1/2022	0.047		0.02	0.014		0.017	0.0071 (J)
3/3/2022		0.013					
8/15/2022	0.045		0.022			0.029	0.0069 (J)
8/16/2022		0.012		0.014	0.0062 (J)		

Time Series

Constituent: Barium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
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)
2/14/2023	0.05	0.013	0.022	0.015		0.018	0.0078 (J)
2/15/2023					0.0058 (J)		
8/18/2023	0.05	0.016	0.025	0.014	0.0055 (J)	0.016	0.0072 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.0114	0.0391					0.0206
5/19/2016			0.031	0.0214	0.055		
7/19/2016	0.012						0.019
7/20/2016		0.028	0.029	0.019	0.039		
9/13/2016	0.011						
9/14/2016		0.035	0.031	0.02	0.04		0.02
11/10/2016	0.016				0.04		0.02
11/11/2016		0.042	0.034	0.022			
1/18/2017	0.013						
1/24/2017							0.017
1/27/2017			0.042	0.023	0.042		
2/6/2017		0.041					
2/8/2017						0.037	
2/23/2017						0.051	
3/14/2017	0.01						0.018
3/15/2017		0.04	0.032	0.024	0.058		
3/17/2017						0.046	
4/11/2017						0.055	
4/25/2017	0.012						0.018
4/26/2017		0.039	0.03	0.004	0.054	0.042	
5/17/2017						0.052	
6/7/2017						0.06	
7/11/2017						0.038	
8/8/2017	0.012						
8/9/2017					0.055		0.02
8/10/2017		0.038	0.03	0.017			
3/28/2018	0.01						
3/29/2018			0.028	0.017	0.061	0.028	
3/30/2018		0.042					0.021
6/14/2018	0.012	0.038	0.03	0.015	0.055	0.023	0.022
10/3/2018	0.011						0.024
10/4/2018		0.04	0.035	0.017	0.046	0.036	
2/26/2019	0.013						
2/27/2019		0.04	0.04	0.016	0.054	0.028	0.023
4/2/2019	0.011						
4/3/2019			0.035	0.015	0.056	0.026	
4/4/2019		0.04					0.022
9/18/2019	0.012				0.062	0.025	0.026
9/19/2019		0.038	0.033	0.016			
2/5/2020	0.012	0.061	0.047	0.016	0.052	0.077	
2/7/2020							0.022
3/17/2020	0.012						
3/18/2020		0.035	0.038	0.016			0.021
3/19/2020					0.072	0.031	
9/22/2020	0.013						
9/23/2020		0.035		0.016			0.027
9/24/2020			0.061		0.038	0.034	
2/2/2021	0.012						
2/3/2021			0.039	0.015			
2/4/2021		0.035			0.047	0.029	0.028
3/10/2021	0.011						
3/11/2021		0.033			0.049	0.032	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.045	0.017			0.028
8/24/2021	0.012						
8/25/2021			0.04	0.016	0.046	0.03	
8/26/2021		0.032					0.029
3/3/2022	0.012	0.033	0.04		0.045	0.029	0.029
3/4/2022				0.016			
8/16/2022	0.011		0.038				
8/17/2022							0.027
8/18/2022				0.014	0.041		
8/19/2022		0.03				0.026	
2/14/2023	0.011						
2/15/2023							0.029
2/16/2023		0.032	0.041	0.014	0.037	0.028	
8/18/2023	0.013						
8/21/2023		0.036	0.044	0.017	0.042	0.026	0.03

Time Series

Constituent: Barium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.0715	0.0219					
7/19/2016	0.069						
7/20/2016		0.019					
9/14/2016	0.066	0.017					
11/10/2016	0.069	0.02					
11/11/2016			0.0022 (J)				
1/20/2017		0.018					
1/24/2017	0.068						
2/6/2017			0.0018 (J)				
3/14/2017		0.019					
3/15/2017	0.065		0.0015 (J)				
4/11/2017			0.0014 (J)				
4/25/2017	0.057	0.023					
4/26/2017			0.0014 (J)				
6/7/2017			0.0014 (J)				
7/11/2017			0.0013 (J)				
8/9/2017	0.069	0.017					
8/10/2017			0.0012 (J)				
3/29/2018	0.05		0.00097 (J)				
3/30/2018		0.015					
6/14/2018	0.046	0.013	0.0011 (J)				
10/4/2018	0.046	0.013	0.0012 (J)				
2/26/2019		0.012					
2/27/2019	0.028						
2/28/2019			<0.01				
4/2/2019			0.0013 (J)				
4/4/2019	0.027	0.011					
9/18/2019	0.032	0.011	<0.01				
2/7/2020	0.034	0.011	0.0065 (J)				
3/18/2020	0.034	0.012					
5/4/2020			<0.01				
9/23/2020	0.037	0.012	<0.01				
2/3/2021			<0.01				
2/4/2021	0.039	0.012					
3/11/2021	0.037	0.011	<0.01				
8/25/2021	0.035	0.011					
8/26/2021			<0.01	<0.01	0.0086 (J)	0.031	0.0078 (J)
1/11/2022					0.0076 (J)	0.04	0.0072 (J)
1/12/2022				<0.01			
3/3/2022	0.041		<0.01		0.0068 (J)		
3/4/2022		0.011		<0.01		0.038	0.0081 (J)
6/6/2022					0.0079 (J)		0.0097 (J)
6/7/2022				<0.01		0.025	
8/16/2022		0.011			0.0039 (J)		
8/17/2022	0.032		0.0012 (J)				0.0089 (J)
8/18/2022				0.00091 (J)			
8/19/2022						0.023	
2/15/2023	0.044					0.033	0.0055 (J)
2/16/2023		0.01	0.00096 (J)	<0.01	0.0053 (J)		
8/15/2023				<0.01			
8/18/2023	0.039						
8/21/2023		0.012	0.0014 (J)		0.0044 (J)	0.021	0.01

Time Series

Constituent: Barium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					0.0026	<0.01
7/20/2016					0.0017 (J)	0.0014 (J)
9/14/2016						0.00092 (J)
9/15/2016					0.0039	
11/14/2016					0.00085 (J)	
2/6/2017					0.0011 (J)	
2/9/2017						0.0015 (J)
3/15/2017					0.0013 (J)	0.00054 (J)
4/11/2017						0.0007 (J)
4/26/2017					0.00098 (J)	<0.01
8/10/2017					0.0025	0.00053 (J)
3/29/2018					0.00085 (J)	<0.01
6/14/2018					0.0028	0.00088 (J)
10/4/2018					0.0017 (J)	0.00076 (J)
2/27/2019					<0.01	
2/28/2019						0.0023 (J)
4/3/2019					0.001 (J)	<0.01
9/19/2019					<0.01	0.0018 (J)
2/5/2020						0.0022 (J)
2/7/2020					<0.01	
3/19/2020					<0.01	0.0021 (J)
9/22/2020					<0.01	
9/23/2020						<0.01
2/3/2021					<0.01	
2/4/2021						0.0016 (J)
3/11/2021					<0.01	
3/12/2021						<0.01
8/26/2021	0.042	0.41			<0.01	<0.01
1/11/2022	0.029	0.38				
3/3/2022	0.028				<0.01	<0.01
3/4/2022		0.38				
6/6/2022	0.032					
6/7/2022		0.34				
8/16/2022					0.0014 (J)	
8/17/2022		0.31				<0.01
8/18/2022	0.041					
10/19/2022			0.0069 (J)	0.0036 (J)		
2/15/2023	0.036	0.33				<0.01
2/16/2023			0.0045 (J)	0.0049 (J)	0.00093 (J)	
8/15/2023			0.004 (J)	0.0047 (J)		
8/18/2023		0.19			0.0019 (J)	
8/21/2023	0.046					<0.01

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

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
8/23/2021			<0.0025				
8/24/2021	<0.0025				<0.0025	<0.0025	<0.0025
8/25/2021		<0.0025		<0.0025			
2/28/2022					<0.0025		
3/1/2022	<0.0025		<0.0025	<0.0025		<0.0025	<0.0025
3/3/2022		<0.0025					
8/15/2022	<0.0025		<0.0025			<0.0025	<0.0025
8/16/2022		<0.0025		<0.0025	<0.0025		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
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)
2/14/2023	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
2/15/2023					<0.0025		
8/18/2023	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025	<0.0025					<0.0025
5/19/2016			<0.0025	<0.0025	<0.0025		
7/19/2016	<0.0025						<0.0025
7/20/2016		<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
11/10/2016	<0.0025				<0.0025		<0.0025
11/11/2016		<0.0025	<0.0025	<0.0025			
1/18/2017	<0.0025						
1/24/2017							<0.0025
1/27/2017			<0.0025	<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	<0.0025	<0.0025		
3/17/2017						<0.0025	
4/11/2017						<0.0025	
4/25/2017	<0.0025						<0.0025
4/26/2017		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
5/17/2017						<0.0025	
6/7/2017						<0.0025	
7/11/2017						<0.0025	
8/8/2017	<0.0025						
8/9/2017					<0.0025		<0.0025
8/10/2017		<0.0025	<0.0025	<0.0025			
3/28/2018	<0.0025						
3/29/2018			<0.0025	<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	<0.0025	<0.0025
10/3/2018	<0.0025						<0.0025
10/4/2018		<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	0.00017 (J)	<0.0025
4/2/2019	<0.0025						
4/3/2019			<0.0025	<0.0025	<0.0025	<0.0025	
4/4/2019		<0.0025					<0.0025
9/18/2019	<0.0025				<0.0025	0.00032 (J)	<0.0025
9/19/2019		<0.0025	<0.0025	<0.0025			
2/5/2020	0.00041 (J)	<0.0025	<0.0025	<0.0025	<0.0025	0.00024 (J)	
2/7/2020							<0.0025
3/17/2020	<0.0025						
3/18/2020		<0.0025	<0.0025	<0.0025			<0.0025
3/19/2020					<0.0025	0.00025 (J)	
9/22/2020	<0.0025						
9/23/2020		<0.0025		<0.0025			<0.0025
9/24/2020			<0.0025		<0.0025	0.00024 (J)	
2/2/2021	<0.0025						
2/3/2021			<0.0025	<0.0025			
2/4/2021		<0.0025			<0.0025	0.00026 (J)	<0.0025
3/10/2021	<0.0025						
3/11/2021		<0.0025			<0.0025	<0.0025	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.0025	<0.0025			<0.0025
8/24/2021	<0.0025						
8/25/2021			<0.0025	<0.0025	<0.0025	<0.0025	
8/26/2021		<0.0025					<0.0025
3/3/2022	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
3/4/2022				<0.0025			
8/16/2022	<0.0025		<0.0025				
8/17/2022							<0.0025
8/18/2022				<0.0025	<0.0025		
8/19/2022		<0.0025				<0.0025	
2/14/2023	<0.0025						
2/15/2023							<0.0025
2/16/2023		<0.0025	<0.0025	<0.0025	<0.0025	0.00031 (J)	
8/18/2023	<0.0025						
8/21/2023		<0.0025	<0.0025	<0.0025	<0.0025	0.00023 (J)	<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.0025	<0.0025					
7/19/2016	<0.0025						
7/20/2016		<0.0025					
9/14/2016	<0.0025	<0.0025					
11/10/2016	<0.0025	<0.0025					
11/11/2016			<0.0025				
1/20/2017		<0.0025					
1/24/2017	<0.0025						
2/6/2017			<0.0025				
3/14/2017		<0.0025					
3/15/2017	<0.0025		<0.0025				
4/11/2017			<0.0025				
4/25/2017	<0.0025	<0.0025					
4/26/2017			<0.0025				
6/7/2017			<0.0025				
7/11/2017			<0.0025				
8/9/2017	<0.0025	<0.0025					
8/10/2017			<0.0025				
3/29/2018	<0.0025		<0.0025				
3/30/2018		<0.0025					
6/14/2018	<0.0025	<0.0025	<0.0025				
10/4/2018	<0.0025	<0.0025	<0.0025				
2/26/2019		<0.0025					
2/27/2019	0.00022 (J)						
2/28/2019			<0.0025				
4/2/2019			<0.0025				
4/4/2019	<0.0025	<0.0025					
9/18/2019	<0.0025	<0.0025	<0.0025				
2/7/2020	<0.0025	<0.0025	<0.0025				
3/18/2020	<0.0025	<0.0025					
5/4/2020			<0.0025				
9/23/2020	<0.0025	<0.0025	<0.0025				
2/3/2021			<0.0025				
2/4/2021	<0.0025	<0.0025					
3/11/2021	<0.0025	<0.0025	<0.0025				
8/25/2021	<0.0025	<0.0025					
8/26/2021			<0.0025	0.0081	<0.0025	0.00053 (J)	0.00089 (J)
1/11/2022					<0.0025	0.00057 (J)	0.0012 (J)
1/12/2022				0.012			
3/3/2022	<0.0025		<0.0025		<0.0025		
3/4/2022		<0.0025		0.01		0.00066 (J)	0.00097 (J)
6/6/2022					<0.0025		0.0011 (J)
6/7/2022				0.0089		0.00055 (J)	
8/16/2022		<0.0025			0.00022 (J)		
8/17/2022	<0.0025		<0.0025				0.00078 (J)
8/18/2022				0.0081			
8/19/2022						0.00063 (J)	
2/15/2023	<0.0025					0.00067 (J)	0.0012 (J)
2/16/2023		<0.0025	<0.0025	0.011	<0.0025		
8/15/2023				0.0099			
8/18/2023	<0.0025						
8/21/2023		<0.0025	<0.0025		0.00021 (J)	0.0006 (J)	0.0013 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					0.00102 (J)	<0.0025
7/20/2016					0.0014 (J)	<0.0025
9/14/2016						<0.0025
9/15/2016					0.00093 (J)	
11/14/2016					0.0014 (J)	
2/6/2017					0.0017 (J)	
2/9/2017						0.00041 (J)
3/15/2017					0.0016 (J)	<0.0025
4/11/2017						<0.0025
4/26/2017					0.0017 (J)	<0.0025
8/10/2017					0.0017 (J)	0.00034 (J)
3/29/2018					0.0018 (J)	<0.0025
6/14/2018					0.0015 (J)	<0.0025
10/4/2018					0.0019 (J)	0.00036 (J)
2/27/2019					0.0021 (J)	
2/28/2019						0.00031 (J)
4/3/2019					0.0019 (J)	<0.0025
9/19/2019					0.0019	0.00041 (J)
2/5/2020						0.0004 (J)
2/7/2020					0.0023	
3/19/2020					0.0028	0.00056 (J)
9/22/2020					0.0025	
9/23/2020						0.00034 (J)
2/3/2021					0.0025	
2/4/2021						0.00039 (J)
3/11/2021					0.0022 (J)	
3/12/2021						0.00034 (J)
8/26/2021	0.014	0.00028 (J)			0.002 (J)	0.00038 (J)
1/11/2022	0.014	0.0002 (J)				
3/3/2022	0.01				0.0027	0.00036 (J)
3/4/2022		<0.0025				
6/6/2022	0.0062					
6/7/2022		0.0003 (J)				
8/16/2022					0.0018 (J)	
8/17/2022		0.00022 (J)				0.00033 (J)
8/18/2022	0.0044					
10/19/2022			0.004	0.00054 (J)		
2/15/2023	0.0099	0.00026 (J)				0.00044 (J)
2/16/2023			0.0079	0.00046 (J)	0.0025	
8/15/2023			0.0071	0.00052 (J)		
8/18/2023		<0.0025			0.0024 (J)	
8/21/2023	0.0049					0.0004 (J)

Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 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	<0.1	<0.1	<0.1				
5/18/2016				<0.1	<0.1	<0.1	<0.1
7/19/2016	<0.1	<0.1	<0.1			<0.1	<0.1
7/20/2016				<0.1	<0.1		
9/13/2016	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1
9/14/2016						<0.1	
11/9/2016	<0.1	<0.1	<0.1				<0.1
11/10/2016				<0.1	<0.1		
1/17/2017	<0.1		<0.1				
1/18/2017				<0.1	<0.1		<0.1
1/19/2017		<0.1				<0.1	
3/13/2017	<0.1		<0.1				
3/14/2017		<0.1		<0.1	<0.1	<0.1	<0.1
4/24/2017	<0.1		<0.1				
4/25/2017		<0.1		<0.1	<0.1	<0.1	<0.1
8/8/2017	<0.1	<0.1	<0.1	<0.1			<0.1
8/9/2017					<0.1	<0.1	
10/10/2017	<0.1		<0.1				
10/11/2017		<0.1		<0.1	<0.1	<0.1	<0.1
6/13/2018	<0.1	<0.1				<0.1	<0.1
6/14/2018			<0.1	<0.1	<0.1		
9/24/2018			<0.1				
9/27/2018	<0.1						
9/28/2018		<0.1					
10/2/2018							<0.1
10/3/2018				<0.1	<0.1	<0.1	
4/1/2019	<0.1		<0.1				
4/2/2019		<0.1		<0.1	<0.1	<0.1	<0.1
9/16/2019	<0.1					<0.1	<0.1
9/17/2019		<0.1	<0.1		<0.1		
9/18/2019				<0.1			
3/16/2020	<0.1		0.048 (J)				
3/17/2020		<0.1		<0.1	<0.1	<0.1	<0.1
9/21/2020			<0.1	<0.1	<0.1		
9/22/2020	<0.1	<0.1				<0.1	<0.1
3/10/2021		<0.1	0.039 (J)	<0.1	<0.1	<0.1	
3/11/2021	<0.1						<0.1
8/23/2021			<0.1				
8/24/2021	<0.1				<0.1	<0.1	<0.1
8/25/2021		0.1		<0.1			
2/28/2022					<0.1		
3/1/2022	<0.1		<0.1	<0.1		<0.1	<0.1
3/3/2022		0.1					
8/15/2022	<0.1		0.066 (J)			<0.1	<0.1
8/16/2022		<0.1		<0.1	<0.1		
2/14/2023	0.026 (J)	<0.1	0.023 (J)	<0.1		0.03 (J)	<0.1
2/15/2023					<0.1		
8/18/2023	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.1	<0.1					<0.1
5/19/2016			<0.1	<0.1	0.0252 (J)		
7/19/2016	<0.1						<0.1
7/20/2016		<0.1	<0.1	<0.1	<0.1		
9/13/2016	<0.1						
9/14/2016		<0.1	<0.1	<0.1	<0.1		<0.1
11/10/2016	<0.1				<0.1		<0.1
11/11/2016		<0.1	<0.1	<0.1			
1/18/2017	<0.1						
1/24/2017							<0.1
1/27/2017			0.021 (J)	0.047 (J)	0.033 (J)		
2/6/2017		<0.1					
2/8/2017						<0.1	
2/23/2017						<0.1	
3/14/2017	<0.1						<0.1
3/15/2017		0.032 (J)	0.058	0.024 (J)	<0.1		
3/17/2017						<0.1	
4/11/2017						<0.1	
4/25/2017	<0.1						<0.1
4/26/2017		<0.1	<0.1	<0.1	<0.1	<0.1	
5/17/2017						<0.1	
6/7/2017						<0.1	
7/11/2017						<0.1	
8/8/2017	<0.1						
8/9/2017					<0.1		<0.1
8/10/2017		<0.1	<0.1	<0.1			
10/11/2017	<0.1					<0.1	<0.1
10/12/2017		<0.1	<0.1	<0.1	<0.1		
6/14/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
10/3/2018	<0.1						<0.1
10/4/2018		<0.1	<0.1	<0.1	<0.1	<0.1	
4/2/2019	<0.1						
4/3/2019			<0.1	<0.1	<0.1	<0.1	
4/4/2019		0.024 (J)					<0.1
9/18/2019	<0.1				<0.1	<0.1	<0.1
9/19/2019		<0.1	<0.1	<0.1			
3/17/2020	<0.1						
3/18/2020		0.049 (J)	<0.1	0.039 (J)			0.071 (J)
3/19/2020					0.053 (J)	0.039 (J)	
9/22/2020	<0.1						
9/23/2020		<0.1		<0.1			<0.1
9/24/2020			<0.1		<0.1	<0.1	
3/10/2021	<0.1						
3/11/2021		<0.1			<0.1	<0.1	
3/12/2021			<0.1	<0.1			<0.1
8/24/2021	<0.1						
8/25/2021			<0.1	<0.1	0.063 (J)	0.043 (J)	
8/26/2021		<0.1					<0.1
3/3/2022	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1
3/4/2022				<0.1			
8/16/2022	<0.1		<0.1				
8/17/2022							<0.1

Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/18/2022				<0.1	<0.1		
8/19/2022		<0.1				<0.1	
2/14/2023	0.033 (J)						
2/15/2023							<0.1
2/16/2023		0.04 (J)	<0.1	0.024 (J)	0.033 (J)	0.03 (J)	
8/18/2023	<0.1						
8/21/2023		0.031 (J)	<0.1	<0.1	<0.1	<0.1	<0.1

Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	4.48	<0.1					
7/19/2016	4.7						
7/20/2016		<0.1					
9/14/2016	5.8	<0.1					
11/10/2016	6.7	<0.1					
11/11/2016			<0.1				
1/20/2017		<0.1					
1/24/2017	6.3						
2/6/2017			<0.1				
3/14/2017		<0.1					
3/15/2017	5.9		0.034 (J)				
4/11/2017			<0.1				
4/25/2017	6.2	<0.1					
4/26/2017			<0.1				
6/7/2017			<0.1				
7/11/2017			<0.1				
8/9/2017	6.3	<0.1					
8/10/2017			<0.1				
10/11/2017	6.8	<0.1					
10/12/2017			<0.1				
6/14/2018	5.4	<0.1	<0.1				
10/4/2018	5.5	<0.1	<0.1				
4/2/2019			<0.1				
4/4/2019	3.2	0.049 (J)					
9/18/2019	2.1	<0.1	<0.1				
3/18/2020	2	0.049 (J)					
5/4/2020			<0.1				
9/23/2020	1.5	<0.1	<0.1				
3/8/2021				1.3			
3/9/2021					0.19	0.33	0.073 (J)
3/11/2021	1.1	<0.1	<0.1				
4/7/2021					0.13		<0.1
4/8/2021				0.98		0.21	
8/25/2021	0.89	<0.1					
8/26/2021			<0.1	2.1	0.087	0.36	0.052 (J)
1/11/2022					0.12	0.39	0.048 (J)
1/12/2022				4.9			
3/3/2022	0.79		<0.1		0.12		
3/4/2022		<0.1		4.3		0.41	<0.1
6/6/2022					0.13		<0.1
6/7/2022				2.8		0.39	
8/16/2022		<0.1			0.099		
8/17/2022	0.73		<0.1				<0.1
8/18/2022				2.2			
8/19/2022						0.33	
2/15/2023	0.86					0.39	0.049 (J)
2/16/2023		<0.1	<0.1	3.5	0.14		
8/15/2023				3.1			
8/18/2023	0.81						
8/21/2023		<0.1	<0.1		0.12	0.33	<0.1

Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					1.42	0.314
7/20/2016					1.4	0.25
9/14/2016						0.3
9/15/2016					1.2	
11/14/2016					1.3	
2/6/2017					1.8	
2/9/2017						0.61
3/15/2017					1.7	0.42
4/11/2017						0.37
4/26/2017					2	0.38
8/10/2017					1.8	0.29
10/12/2017					1.8	0.36
6/14/2018					1.7	0.39
10/4/2018					1.9	0.37
4/3/2019					1.7	0.35
9/19/2019					1.7	0.39
3/19/2020					2.2	0.55
9/22/2020					2.5	
9/23/2020						0.68
3/8/2021		0.48				
3/9/2021	1.8					
3/11/2021					2.4	
3/12/2021						0.64
4/7/2021	1.9					
4/8/2021		0.43				
8/26/2021	2.1	0.7			2.4	0.56
1/11/2022	1.7	0.87				
3/3/2022	1.6				2.7	0.62
3/4/2022		0.72				
6/6/2022	0.64					
6/7/2022		0.78				
8/16/2022					2.3	
8/17/2022		0.82				0.55
8/18/2022	0.44					
10/19/2022			2.9	0.098		
2/15/2023	1.4	0.89				0.69
2/16/2023			3.9	0.22	2.8	
8/15/2023			3.3	0.35		
8/18/2023		0.57			2.8	
8/21/2023	0.59					0.6

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

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
2/28/2022					<0.0025		
3/1/2022	<0.0025		<0.0025	<0.0025		<0.0025	<0.0025
3/3/2022		<0.0025					
8/15/2022	<0.0025		<0.0025			<0.0025	<0.0025
8/16/2022		<0.0025		<0.0025	<0.0025		
2/14/2023	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
2/15/2023					<0.0025		
8/18/2023	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025	<0.0025					<0.0025
5/19/2016			<0.0025	<0.0025	<0.0025		
7/19/2016	<0.0025						<0.0025
7/20/2016		<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
11/10/2016	<0.0025				<0.0025		<0.0025
11/11/2016		<0.0025	<0.0025	<0.0025			
1/18/2017	<0.0025						
1/24/2017							<0.0025
1/27/2017			<0.0025	<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	<0.0025	<0.0025		
3/17/2017						<0.0025	
4/11/2017						<0.0025	
4/25/2017	<0.0025						<0.0025
4/26/2017		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
5/17/2017						<0.0025	
6/7/2017						<0.0025	
7/11/2017						<0.0025	
8/8/2017	<0.0025						
8/9/2017					<0.0025		<0.0025
8/10/2017		<0.0025	<0.0025	<0.0025			
3/28/2018	<0.0025						
3/29/2018			<0.0025	<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	<0.0025	<0.0025
10/3/2018	<0.0025						<0.0025
10/4/2018		<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	<0.0025
4/2/2019	<0.0025						
4/3/2019			<0.0025	<0.0025	<0.0025	<0.0025	
4/4/2019		<0.0025					<0.0025
9/18/2019	<0.0025				<0.0025	<0.0025	<0.0025
9/19/2019		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			<0.0025
3/19/2020					<0.0025	<0.0025	
9/22/2020	<0.0025						
9/23/2020		<0.0025		<0.0025			<0.0025
9/24/2020			<0.0025		<0.0025	<0.0025	
2/2/2021	<0.0025						
2/3/2021			<0.0025	<0.0025			
2/4/2021		<0.0025			<0.0025	<0.0025	<0.0025
3/3/2022	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
3/4/2022				<0.0025			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/16/2022	<0.0025		<0.0025				
8/17/2022							<0.0025
8/18/2022				<0.0025	<0.0025		
8/19/2022		<0.0025				<0.0025	
2/14/2023	<0.0025						
2/15/2023							<0.0025
2/16/2023		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
8/18/2023	<0.0025						
8/21/2023		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.000362 (J)	<0.0025					
7/19/2016	<0.0025						
7/20/2016		<0.0025					
9/14/2016	0.00037 (J)	<0.0025					
11/10/2016	<0.0025	<0.0025					
11/11/2016			<0.0025				
1/20/2017		<0.0025					
1/24/2017	0.00055 (J)						
2/6/2017			<0.0025				
3/14/2017		<0.0025					
3/15/2017	0.00067 (J)		<0.0025				
4/11/2017			<0.0025				
4/25/2017	0.00058 (J)	<0.0025					
4/26/2017			<0.0025				
6/7/2017			<0.0025				
7/11/2017			<0.0025				
8/9/2017	0.00054 (J)	<0.0025					
8/10/2017			<0.0025				
3/29/2018	0.00082 (J)		<0.0025				
3/30/2018		<0.0025					
6/14/2018	0.0007 (J)	<0.0025	<0.0025				
10/4/2018	0.00065 (J)	<0.0025	<0.0025				
2/26/2019		<0.0025					
2/27/2019	0.00055 (J)						
2/28/2019			<0.0025				
4/2/2019			<0.0025				
4/4/2019	0.00047 (J)	<0.0025					
9/18/2019	0.00017 (J)	<0.0025	<0.0025				
2/7/2020	<0.0025	<0.0025	<0.0025				
3/18/2020	0.00022 (J)	<0.0025					
5/4/2020			<0.0025				
9/23/2020	<0.0025	<0.0025	<0.0025				
2/3/2021			<0.0025				
2/4/2021	<0.0025	<0.0025					
8/26/2021				<0.0025	<0.0025	<0.0025	<0.0025
1/11/2022					<0.0025	<0.0025	<0.0025
1/12/2022				0.00026 (J)			
3/3/2022	<0.0025		<0.0025		<0.0025		
3/4/2022		<0.0025		<0.0025		0.00025 (J)	<0.0025
6/6/2022					<0.0025		<0.0025
6/7/2022				<0.0025		<0.0025	
8/16/2022		<0.0025			<0.0025		
8/17/2022	<0.0025		<0.0025				<0.0025
8/18/2022				<0.0025			
8/19/2022						9E-05 (J)	
2/15/2023	8.5E-05 (J)					0.00028 (J)	<0.0025
2/16/2023		<0.0025	<0.0025	0.00057 (J)	<0.0025		
8/15/2023				0.00019 (J)			
8/18/2023	<0.0025						
8/21/2023		<0.0025	<0.0025		<0.0025	<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					<0.0025	<0.0025
7/20/2016					<0.0025	<0.0025
9/14/2016						<0.0025
9/15/2016					<0.0025	
11/14/2016					<0.0025	
2/6/2017					<0.0025	
2/9/2017						<0.0025
3/15/2017					<0.0025	<0.0025
4/11/2017						<0.0025
4/26/2017					<0.0025	<0.0025
8/10/2017					<0.0025	<0.0025
3/29/2018					<0.0025	<0.0025
6/14/2018					<0.0025	<0.0025
10/4/2018					<0.0025	<0.0025
2/27/2019					<0.0025	
2/28/2019						<0.0025
4/3/2019					<0.0025	<0.0025
9/19/2019					<0.0025	<0.0025
2/5/2020						<0.0025
2/7/2020					<0.0025	
3/19/2020					<0.0025	<0.0025
9/22/2020					<0.0025	
9/23/2020						<0.0025
2/3/2021					<0.0025	
2/4/2021						<0.0025
8/26/2021	0.00061 (J)	<0.0025				
1/11/2022	0.0004 (J)	<0.0025				
3/3/2022	0.0003 (J)				<0.0025	<0.0025
3/4/2022		<0.0025				
6/6/2022	0.0003 (J)					
6/7/2022		<0.0025				
8/16/2022					<0.0025	
8/17/2022		0.00012 (J)				<0.0025
8/18/2022	0.00015 (J)					
10/19/2022			0.00014 (J)	<0.0025		
2/15/2023	0.00057 (J)	0.0001 (J)				<0.0025
2/16/2023			0.00018 (J)	8E-05 (J)	0.00065 (J)	
8/15/2023			0.00011 (J)	<0.0025		
8/18/2023		<0.0025			0.00013 (J)	
8/21/2023	9.5E-05 (J)					<0.0025

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

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
8/23/2021			13				
8/24/2021	1.2				15	47	26
8/25/2021		16		1.7			
2/28/2022					14		
3/1/2022	1.1		13	1.6		2.1	22
3/3/2022		6.1					
8/15/2022	1.2		12			51	24
8/16/2022		8.8		1.8	16		
2/14/2023	1.4	5.7	12	2		1.3	29
2/15/2023					18		
8/18/2023	1.5	8.3	14	1.9	17	26	27

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	1.36	7.17					32.5
5/19/2016			1.95	15.8	11.4		
7/19/2016	0.88						30
7/20/2016		7	1.5	14	7.1		
9/13/2016	0.93						
9/14/2016		7.7	1.8	16	7.4		37
11/10/2016	6.1				6.4		29
11/11/2016		8.2	1.7	15			
1/18/2017	10						
1/24/2017							28
1/27/2017			3.5	16	6.2		
2/6/2017		9.1					
2/8/2017						3.2	
2/23/2017						4.1	
3/14/2017	1.3						29
3/15/2017		9	3.8	16	6.7		
3/17/2017						2.4	
4/11/2017						4.1	
4/25/2017	1.9						32
4/26/2017		8.1	4	3	6.5	2.5	
5/17/2017						5.2	
6/7/2017						5.2	
7/11/2017						2.3	
8/8/2017	4.8						
8/9/2017					7		30
8/10/2017		8.1	3.5	15			
10/11/2017	0.93					3.8	31
10/12/2017		8.6	2.7	16	7		
6/14/2018	0.94	7.7	2.2	13	5.5	1.1	29
10/3/2018	1.2						31
10/4/2018		8.5	2	15	5.9	2	
4/2/2019	1.1						
4/3/2019			1.7	14	4.7	0.84	
4/4/2019		7.9					30
9/18/2019	1.5				4.9	0.85	31
9/19/2019		7.5	1.4	14			
3/17/2020	0.82						
3/18/2020		7.5	1.6	14			30
3/19/2020					5	0.89	
9/22/2020	0.89						
9/23/2020		7.7		13			32
9/24/2020			5.2		1.4	0.99	
3/10/2021	0.89						
3/11/2021		7.9			4	0.79	
3/12/2021			1.6	15			31
8/24/2021	1.7						
8/25/2021			1.5	14	4	0.7	
8/26/2021		7.6					31
3/3/2022	1.4	7.1	1.3		3.4	0.65	28
3/4/2022				12			
8/16/2022	0.94		1.6				
8/17/2022							29

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/18/2022				13	3.5		
8/19/2022		7.3				0.64	
2/14/2023	1.3						
2/15/2023							31
2/16/2023		6.9	1.7	12	3.8	0.69	
8/18/2023	1.8						
8/21/2023		8	1.7	15	4.1	0.7	32

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	168	8.24					
7/19/2016	190						
7/20/2016		11					
9/14/2016	230	12					
11/10/2016	240	11					
11/11/2016			12				
1/20/2017		10					
1/24/2017	280						
2/6/2017			11				
3/14/2017		8.8					
3/15/2017	260		10				
4/11/2017			11				
4/25/2017	300	12					
4/26/2017			8.4				
6/7/2017			9				
7/11/2017			9.5				
8/9/2017	350	11					
8/10/2017			8.8				
10/11/2017	360	10					
10/12/2017			9.5				
6/14/2018	260	6.2	8.9				
10/4/2018	250	6.4	10				
4/2/2019			11				
4/4/2019	110	5.6					
9/18/2019	62	5.5	8.8				
3/18/2020	66	6.3					
5/4/2020			15				
9/23/2020	43	5.9	13				
3/8/2021				90			
3/9/2021					66	15	3.2
3/11/2021	32	5.7	15				
4/7/2021					67		2.7
4/8/2021				88		14	
8/25/2021	27	6					
8/26/2021			10	120	51	24	4.6
1/11/2022					57	32	3.1
1/12/2022				220			
3/3/2022	24		12		54		
3/4/2022		5.3		200		31	4
6/6/2022					58		4.5
6/7/2022				140		19	
8/16/2022		5.6			55		
8/17/2022	20		9.8				4.6
8/18/2022				110			
8/19/2022						18	
2/15/2023	26					26	2.4
2/16/2023		6	13	190	68		
8/15/2023				150			
8/18/2023	23						
8/21/2023		6.3	14		63	16	4.2

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					31.4	8.53
7/20/2016					28	8.2
9/14/2016						8.8
9/15/2016					27	
11/14/2016					32	
2/6/2017					41	
2/9/2017						10
3/15/2017					38	8.6
4/11/2017						8.6
4/26/2017					39	7.1
8/10/2017					53	7.5
10/12/2017					60	8.2
6/14/2018					52	7.5
10/4/2018					65	8
4/3/2019					61	7.2
9/19/2019					57	8.1
3/19/2020					79	9.3
9/22/2020					81	
9/23/2020						10
3/8/2021		14				
3/9/2021	65					
3/11/2021					83	
3/12/2021						11
4/7/2021	71					
4/8/2021		16				
8/26/2021	69	16			85	9.3
1/11/2022	51	16				
3/3/2022	42				88	8.6
3/4/2022		16				
6/6/2022	22					
6/7/2022		15				
8/16/2022					83	
8/17/2022		15				9
8/18/2022	16					
10/19/2022			130	5.9		
2/15/2023	39	18				11
2/16/2023			180	19	92	
8/15/2023			140	25		
8/18/2023		28			96	
8/21/2023	18					11

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

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
8/23/2021			3.3				
8/24/2021	5.1				1.5	2.1	1.8
8/25/2021		2.3		1.9			
2/28/2022					1.2		
3/1/2022	4.1		2.7	1.8		1.5	1.5
3/3/2022		2					
8/15/2022	4		2.7			1.5	1.5
8/16/2022		1.9		1.6	1.2		
2/14/2023	3.9	1.9	2.6	1.6		1.3	1.5
2/15/2023					1.2		
8/22/2023	3.8	1.8	2.5	1.6	1.2	1.2	1.4

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	2.06	1.45					4.59
5/19/2016			3.21	3.8	2.26		
7/19/2016	2.1						5.9
7/20/2016		1.6	3.4	3.8	1.9		
9/13/2016	2						
9/14/2016		1.5	3.1	3.7	1.6		7.9
11/10/2016	1.8				1.4		6.5
11/11/2016		1.5	3.2	3.5			
1/18/2017	1.8						
1/24/2017							4.1
1/27/2017			3.4	3.1	1.4		
2/6/2017		1.4					
2/8/2017						2.5	
2/23/2017						4.3	
3/14/2017	1.8						4.4
3/15/2017		1.4	3.1	3.2	1.4		
3/17/2017						4.8	
4/11/2017						3.8	
4/25/2017	1.8						4
4/26/2017		1.3	3.1	3.2	1.3	4.8	
5/17/2017						3.9	
6/7/2017						3.2	
7/11/2017						4.1	
8/8/2017	1.9						
8/9/2017					1.4		3.6
8/10/2017		1.4	3.1	3.4			
10/11/2017	1.8					2.2	5
10/12/2017		1.3	3	3.1	1.2		
6/14/2018	1.7	1.3	3	3	1.2	2.8	4.3
10/3/2018	1.8						4.8
10/4/2018		1.3	3.1	3.1	1.2	2.2	
4/2/2019	1.9						
4/3/2019			3.3	3	1.2	2.4	
4/4/2019		1.4					3.7
9/18/2019	2				1.2	2.2	3.2
9/19/2019		1.5	3.2	3.2			
3/17/2020	2.2						
3/18/2020		1.5	3.2	3.2			1.7
3/19/2020					1.3	1.9	
9/22/2020	1.8						
9/23/2020		1.3		2.8			1.5
9/24/2020			1		1.6	3.1	
3/10/2021	1.9						
3/11/2021		1.7			1.2	2.6	
3/12/2021			3.6	3.5			1.6
8/24/2021	1.9						
8/25/2021			3.5	3.7	1.2	2.8	
8/26/2021		1.6					1.4
3/3/2022	2.1	1.6	3.6		1	2.4	1.4
3/4/2022				3.2			
8/16/2022	1.9		3.5				
8/17/2022							1.2

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/18/2022				3	0.98 (J)		
8/19/2022		1.4				2.1	
2/14/2023	1.8						
2/15/2023							1
2/16/2023		1.3	3.3	2.9	0.97 (J)	1.9	
8/22/2023	1.7						
8/23/2023		1.3	3.3	2.8	0.91 (J)	1.8	0.95 (J)

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	217	2.72					
7/19/2016	250						
7/20/2016		1.9					
9/14/2016	260	1.6					
11/10/2016	290	1.6					
11/11/2016			2.6				
1/20/2017		1.5					
1/24/2017	310						
2/6/2017			2.6				
3/14/2017		1.5					
3/15/2017	330		2.4				
4/11/2017			2.3				
4/25/2017	330	1.8					
4/26/2017			2.3				
6/7/2017			2.5				
7/11/2017			2.3				
8/9/2017	330	1.4					
8/10/2017			2.5				
10/11/2017	320	1.5					
10/12/2017			2.3				
6/14/2018	290	1.5	2.4				
10/4/2018	290	1.5	2.6				
4/2/2019			2.5				
4/4/2019	170	1.4					
9/18/2019	100	1.5	2.7				
3/18/2020	93	1.5					
5/4/2020			2.8				
9/23/2020	58	1.2	2.6				
3/8/2021				70			
3/9/2021					58	2.9	3.5
3/11/2021	49	1.3	2.9				
4/7/2021					50		3.7
4/8/2021				57		2.4	
8/25/2021	45	1.6					
8/26/2021			3.3	130	47	4.2	3.3
1/11/2022					44	5.1	2.9
1/12/2022				350			
3/3/2022	42		3.2		45		
3/4/2022		1.3		330		5.3	2.9
6/6/2022					48		3.1
6/7/2022				180		4.3	
8/16/2022		1.3			41		
8/17/2022	35		2.8				3.2
8/18/2022				140			
8/19/2022						4.2	
2/15/2023	42					4.6	2.9
2/16/2023		1.2	2.6	230	51		
8/17/2023				190			
8/22/2023	34						
8/23/2023		1.1	2.5		47	3.9	2.9

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					17.5	1.46
7/20/2016					19	1.5
9/14/2016						1.4
9/15/2016					19	
11/14/2016					25	
2/6/2017					33	
2/9/2017						1.5
3/15/2017					38	1.3
4/11/2017						1.2
4/26/2017					42	1.2
8/10/2017					48	1.3
10/12/2017					60	1.4
6/14/2018					58	1.2
10/4/2018					300	1.2
4/3/2019					70	2
9/19/2019					70	1.5
3/19/2020					98	2.1
9/22/2020					100	
9/23/2020						2.4
3/8/2021		74				
3/9/2021	110					
3/11/2021					110	
3/12/2021						3.4
4/7/2021	110					
4/8/2021		77				
8/26/2021	100	79			110	3.1
1/11/2022	60	75				
3/3/2022	50				130	3.5
3/4/2022		79				
6/6/2022	41					
6/7/2022		79				
8/16/2022					110	
8/17/2022		77				3.2
8/18/2022	27					
10/19/2022			200	5		
2/15/2023	39	79				3.9
2/16/2023			280	22	120	
8/17/2023			200	29		
8/22/2023		35			110	3.3
8/23/2023	22					

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

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
8/23/2021			<0.002				
8/24/2021	<0.002				<0.002	<0.002	<0.002
8/25/2021		<0.002		<0.002			
2/28/2022					<0.002		
3/1/2022	<0.002		<0.002	<0.002		<0.002	<0.002
3/3/2022		<0.002					
8/15/2022	0.0063		<0.002			<0.002	<0.002
8/16/2022		<0.002		<0.002	<0.002		

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
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)
2/14/2023	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
2/15/2023					<0.002		
8/18/2023	0.0012 (J)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.002	<0.002					<0.002
5/19/2016			<0.002	<0.002	<0.002		
7/19/2016	<0.002						<0.002
7/20/2016		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
11/10/2016	<0.002				<0.002		<0.002
11/11/2016		0.0015 (J)	<0.002	<0.002			
1/18/2017	<0.002						
1/24/2017							<0.002
1/27/2017			<0.002	<0.002	<0.002		
2/6/2017		0.0011 (J)					
2/8/2017						<0.002	
2/23/2017						<0.002	
3/14/2017	<0.002						<0.002
3/15/2017		0.0015 (J)	<0.002	<0.002	<0.002		
3/17/2017						<0.002	
4/11/2017						<0.002	
4/25/2017	<0.002						<0.002
4/26/2017		0.0013 (J)	0.0011 (J)	<0.002	<0.002	<0.002	
5/17/2017						<0.002	
6/7/2017						<0.002	
7/11/2017						<0.002	
8/8/2017	<0.002						
8/9/2017					<0.002		<0.002
8/10/2017		0.0016 (J)	<0.002	<0.002			
3/28/2018	<0.002						
3/29/2018			0.0012 (J)	<0.002	<0.002	<0.002	
3/30/2018		0.0027					<0.002
6/14/2018	<0.002	0.0023 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
10/3/2018	<0.002						<0.002
10/4/2018		0.0031	<0.002	<0.002	<0.002	<0.002	
2/26/2019	<0.002						
2/27/2019		0.0031	0.0021 (J)	<0.002	0.0018 (J)	<0.002	0.0015 (J)
4/2/2019	<0.002						
4/3/2019			<0.002	<0.002	<0.002	<0.002	
4/4/2019		0.0021 (J)					<0.002
9/18/2019	<0.002				<0.002	<0.002	<0.002
9/19/2019		0.0022	<0.002	<0.002			
2/5/2020	<0.002	0.0022	<0.002	<0.002	<0.002	0.0017 (J)	
2/7/2020							<0.002
3/17/2020	<0.002						
3/18/2020		<0.002	<0.002	<0.002			<0.002
3/19/2020					<0.002	<0.002	
9/22/2020	<0.002						
9/23/2020		0.0018 (J)		<0.002			<0.002
9/24/2020			<0.002		<0.002	<0.002	
2/2/2021	<0.002						
2/3/2021			<0.002	<0.002			
2/4/2021		0.0018 (J)			<0.002	<0.002	<0.002
3/10/2021	<0.002						
3/11/2021		0.0023			0.0019 (J)	<0.002	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.0017 (J)	<0.002			<0.002
8/24/2021	<0.002						
8/25/2021			<0.002	<0.002	0.0017 (J)	<0.002	
8/26/2021		0.0024					<0.002
3/3/2022	<0.002	0.0023	<0.002		<0.002	<0.002	<0.002
3/4/2022				<0.002			
8/16/2022	<0.002		<0.002				
8/17/2022							<0.002
8/18/2022				<0.002	<0.002		
8/19/2022		0.0024				<0.002	
2/14/2023	<0.002						
2/15/2023							<0.002
2/16/2023		0.0014 (J)	<0.002	<0.002	<0.002	<0.002	
8/18/2023	<0.002						
8/21/2023		0.0029	<0.002	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.002	<0.002					
7/19/2016	<0.002						
7/20/2016		<0.002					
9/14/2016	<0.002	<0.002					
11/10/2016	<0.002	<0.002					
11/11/2016			<0.002				
1/20/2017		<0.002					
1/24/2017	<0.002						
2/6/2017			<0.002				
3/14/2017		<0.002					
3/15/2017	<0.002		<0.002				
4/11/2017			<0.002				
4/25/2017	<0.002	<0.002					
4/26/2017			<0.002				
6/7/2017			<0.002				
7/11/2017			<0.002				
8/9/2017	<0.002	<0.002					
8/10/2017			<0.002				
3/29/2018	<0.002		<0.002				
3/30/2018		<0.002					
6/14/2018	<0.002	<0.002	<0.002				
10/4/2018	<0.002	<0.002	<0.002				
2/26/2019		<0.002					
2/27/2019	<0.002						
2/28/2019			<0.002				
4/2/2019			<0.002				
4/4/2019	<0.002	<0.002					
9/18/2019	<0.002	<0.002	<0.002				
2/7/2020	<0.002	<0.002	<0.002				
3/18/2020	<0.002	<0.002					
5/4/2020			<0.002				
9/23/2020	<0.002	<0.002	<0.002				
2/3/2021			<0.002				
2/4/2021	<0.002	<0.002					
3/11/2021	<0.002	<0.002	<0.002				
8/25/2021	<0.002	<0.002					
8/26/2021			<0.002	<0.002	<0.002	<0.002	<0.002
1/11/2022					<0.002	<0.002	<0.002
1/12/2022				<0.002			
3/3/2022	<0.002		<0.002		<0.002		
3/4/2022		<0.002		<0.002		<0.002	<0.002
6/6/2022					<0.002		<0.002
6/7/2022				<0.002		<0.002	
8/16/2022		<0.002			<0.002		
8/17/2022	<0.002		<0.002				<0.002
8/18/2022				<0.002			
8/19/2022						<0.002	
2/15/2023	<0.002					<0.002	<0.002
2/16/2023		<0.002	<0.002	<0.002	0.0015 (J)		
8/15/2023				<0.002			
8/18/2023	<0.002						
8/21/2023		<0.002	<0.002		<0.002	<0.002	<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					<0.002	<0.002
7/20/2016					<0.002	<0.002
9/14/2016						<0.002
9/15/2016					<0.002	
11/14/2016					<0.002	
2/6/2017					<0.002	
2/9/2017						<0.002
3/15/2017					<0.002	<0.002
4/11/2017						<0.002
4/26/2017					<0.002	<0.002
8/10/2017					<0.002	<0.002
3/29/2018					<0.002	<0.002
6/14/2018					<0.002	<0.002
10/4/2018					<0.002	<0.002
2/27/2019					<0.002	
2/28/2019						0.0025
4/3/2019					<0.002	<0.002
9/19/2019					<0.002	<0.002
2/5/2020						<0.002
2/7/2020					<0.002	
3/19/2020					<0.002	<0.002
9/22/2020					<0.002	
9/23/2020						<0.002
2/3/2021					<0.002	
2/4/2021						<0.002
3/11/2021					<0.002	
3/12/2021						<0.002
8/26/2021	<0.002	<0.002			<0.002	<0.002
1/11/2022	<0.002	<0.002				
3/3/2022	<0.002				<0.002	<0.002
3/4/2022		<0.002				
6/6/2022	<0.002					
6/7/2022		<0.002				
8/16/2022					<0.002	
8/17/2022		<0.002				<0.002
8/18/2022	<0.002					
10/19/2022			0.0024	<0.002		
2/15/2023	<0.002	<0.002				<0.002
2/16/2023			<0.002	<0.002	<0.002	
8/15/2023			<0.002	<0.002		
8/18/2023		<0.002			<0.002	
8/21/2023	<0.002					<0.002

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

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	<0.01	<0.0025	<0.0025				
5/18/2016				<0.0025	<0.0025	<0.01	<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
8/23/2021			0.00049 (J)				
8/24/2021	0.0016 (J)				<0.0025	0.00079 (J)	<0.0025
8/25/2021		0.00084 (J)		<0.0025			
2/28/2022					<0.0025		
3/1/2022	0.00073 (J)		0.00038 (J)	<0.0025		0.0014 (J)	<0.0025
3/3/2022		0.0014 (J)					
8/15/2022	0.0007 (J)		0.00045 (J)			0.00063 (J)	<0.0025
8/16/2022		0.00075 (J)		<0.0025	<0.0025		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
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)
2/14/2023	0.00073 (J)	0.001 (J)	0.00052 (J)	<0.0025		0.0011 (J)	<0.0025
2/15/2023					<0.0025		
8/18/2023	0.00087 (J)	0.00075 (J)	0.0006 (J)	<0.0025	<0.0025	0.00059 (J)	<0.0025

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025	0.00201 (J)					<0.0025
5/19/2016			<0.0025	<0.01	<0.0025		
7/19/2016	<0.0025						<0.0025
7/20/2016		0.00066 (J)	0.0025	0.0013 (J)	<0.0025		
9/13/2016	<0.0025						
9/14/2016		0.00095 (J)	<0.0025	0.00098 (J)	<0.0025		<0.0025
11/10/2016	0.00055 (J)				<0.0025		<0.0025
11/11/2016		0.001 (J)	0.00052 (J)	0.0017 (J)			
1/18/2017	0.00097 (J)						
1/24/2017							<0.0025
1/27/2017			0.00049 (J)	0.0022 (J)	<0.0025		
2/6/2017		0.00072 (J)					
2/8/2017						0.0051	
2/23/2017						0.014	
3/14/2017	<0.0025						<0.0025
3/15/2017		0.00062 (J)	0.00064 (J)	0.0016 (J)	<0.0025		
3/17/2017						0.013	
4/11/2017						0.016	
4/25/2017	<0.0025						<0.0025
4/26/2017		0.0014 (J)	0.001 (J)	0.00026 (J)	<0.0025	0.01	
5/17/2017						0.011	
6/7/2017						0.01	
7/11/2017						0.0085	
8/8/2017	<0.0025						
8/9/2017					0.0004 (J)		<0.0025
8/10/2017		<0.0025	0.0011 (J)	0.00049 (J)			
3/28/2018	<0.0025						
3/29/2018			<0.0025	0.0008 (J)	0.0008 (J)	0.015	
3/30/2018		0.0035					<0.0025
6/14/2018	<0.0025	0.0012 (J)	<0.0025	0.00067 (J)	0.00054 (J)	0.011	<0.0025
10/3/2018	<0.0025						<0.0025
10/4/2018		0.00086 (J)	<0.0025	0.00079 (J)	<0.0025	0.0055	
2/26/2019	0.00017 (J)						
2/27/2019		0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)	0.0049	<0.0025
4/2/2019	<0.0025						
4/3/2019			0.00081 (J)	0.00043 (J)	<0.0025	0.0056	
4/4/2019		0.0017 (J)					<0.0025
9/18/2019	0.0002 (J)				<0.0025	0.005	<0.0025
9/19/2019		0.0023	<0.0025	0.00028 (J)			
2/5/2020	0.00021 (J)	0.0013	0.00026 (J)	0.00058	<0.0025	0.0044	
2/7/2020							<0.0025
3/17/2020	0.00065 (J)						
3/18/2020		0.0012 (J)	0.00069 (J)	0.00071 (J)			<0.0025
3/19/2020					<0.0025	0.0039	
9/22/2020	0.00015 (J)						
9/23/2020		0.00062 (J)		0.00039 (J)			<0.0025
9/24/2020			<0.0025		0.00032 (J)	0.0035	
2/2/2021	<0.0025						
2/3/2021			0.00072 (J)	0.00017 (J)			
2/4/2021		0.00059 (J)			<0.0025	0.0041	0.00015 (J)
3/10/2021	<0.0025						
3/11/2021		0.00058 (J)			<0.0025	0.0037	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.0022 (J)	0.00042 (J)			<0.0025
8/24/2021	0.00017 (J)						
8/25/2021			0.00045 (J)	0.0005 (J)	<0.0025	0.0029	
8/26/2021		0.00044 (J)					<0.0025
3/3/2022	<0.0025	0.00045 (J)	0.00026 (J)		<0.0025	0.0024 (J)	<0.0025
3/4/2022				0.00056 (J)			
8/16/2022	<0.0025		<0.0025				
8/17/2022							<0.0025
8/18/2022				0.00034 (J)	<0.0025		
8/19/2022		0.0014 (J)				0.002 (J)	
2/14/2023	<0.0025						
2/15/2023							<0.0025
2/16/2023		<0.0025	<0.0025	0.0004 (J)	<0.0025	0.0022 (J)	
8/18/2023	<0.0025						
8/21/2023		0.00038 (J)	<0.0025	0.00025 (J)	0.00024 (J)	0.002 (J)	<0.0025

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.0069	0.00245 (J)					
7/19/2016	0.012						
7/20/2016		0.0018 (J)					
9/14/2016	0.013	0.0014 (J)					
11/10/2016	0.016	0.0016 (J)					
11/11/2016			<0.0025				
1/20/2017		0.0014 (J)					
1/24/2017	0.015						
2/6/2017			0.00058 (J)				
3/14/2017		0.0023 (J)					
3/15/2017	0.014		0.00045 (J)				
4/11/2017			<0.0025				
4/25/2017	0.014	0.0023 (J)					
4/26/2017			<0.0025				
6/7/2017			<0.0025				
7/11/2017			<0.0025				
8/9/2017	0.016	0.0011 (J)					
8/10/2017			0.00049 (J)				
3/29/2018	0.0092		<0.0025				
3/30/2018		0.0016 (J)					
6/14/2018	0.0035	0.00055 (J)	<0.0025				
10/4/2018	0.0078	0.00041 (J)	<0.0025				
2/26/2019		0.00086 (J)					
2/27/2019	0.00084 (J)						
2/28/2019			0.00019 (J)				
4/2/2019			<0.0025				
4/4/2019	0.00077 (J)	<0.0025					
9/18/2019	0.00011 (J)	0.00018 (J)	0.00045 (J)				
2/7/2020	0.00016 (J)	0.00077	0.00024 (J)				
3/18/2020	0.00016 (J)	0.00052 (J)					
5/4/2020			0.00018 (J)				
9/23/2020	<0.0025	0.0009 (J)	0.00024 (J)				
2/3/2021			0.00025 (J)				
2/4/2021	0.00026 (J)	0.00042 (J)					
3/11/2021	0.00013 (J)	0.00035 (J)	0.00022 (J)				
8/25/2021	<0.0025	0.00042 (J)					
8/26/2021			0.00022 (J)	0.00046 (J)	0.00042 (J)	0.00038 (J)	0.00017 (J)
1/11/2022					0.00032 (J)	0.00025 (J)	0.00016 (J)
1/12/2022				0.00037 (J)			
3/3/2022	<0.0025		0.00034 (J)		0.00042 (J)		
3/4/2022		0.00026 (J)		<0.0025		0.00034 (J)	<0.0025
6/6/2022					0.001 (J)		<0.0025
6/7/2022				<0.0025		<0.0025	
8/16/2022		<0.0025			0.00039 (J)		
8/17/2022	<0.0025		<0.0025				<0.0025
8/18/2022				<0.0025			
8/19/2022						<0.0025	
2/15/2023	<0.0025					<0.0025	<0.0025
2/16/2023		<0.0025	0.00053 (J)	<0.0025	<0.0025		
8/15/2023				<0.0025			
8/18/2023	<0.0025						
8/21/2023		<0.0025	0.00026 (J)		<0.0025	<0.0025	<0.0025

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					<0.0025	<0.0025
7/20/2016					<0.0025	<0.0025
9/14/2016						<0.0025
9/15/2016					<0.0025	
11/14/2016					<0.0025	
2/6/2017					<0.0025	
2/9/2017						0.00073 (J)
3/15/2017					<0.0025	<0.0025
4/11/2017						<0.0025
4/26/2017					<0.0025	<0.0025
8/10/2017					<0.0025	<0.0025
3/29/2018					0.00066 (J)	<0.0025
6/14/2018					0.0011 (J)	<0.0025
10/4/2018					<0.0025	<0.0025
2/27/2019					0.0019 (J)	
2/28/2019						<0.0025
4/3/2019					0.0037	<0.0025
9/19/2019					0.0028	<0.0025
2/5/2020						<0.0025
2/7/2020					0.0011	
3/19/2020					0.00092 (J)	<0.0025
9/22/2020					0.00065 (J)	
9/23/2020						<0.0025
2/3/2021					0.00014 (J)	
2/4/2021						<0.0025
3/11/2021					0.00043 (J)	
3/12/2021						<0.0025
8/26/2021	0.13	0.005			0.0005 (J)	<0.0025
1/11/2022	0.11	0.0048				
3/3/2022	0.086				0.0003 (J)	<0.0025
3/4/2022		0.004				
6/6/2022	0.042					
6/7/2022		0.0043				
8/16/2022					0.00075 (J)	
8/17/2022		0.0037				<0.0025
8/18/2022	0.031					
10/19/2022			0.0016 (J)	0.002 (J)		
2/15/2023	0.084	0.0049				<0.0025
2/16/2023			0.0014 (J)	0.0013 (J)	<0.0025	
8/15/2023			0.0011 (J)	0.0018 (J)		
8/18/2023		0.0081			<0.0025	
8/21/2023	0.035					<0.0025

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

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
8/23/2021			0.632				
8/24/2021	0.598				1.61	0.226 (U)	9.78
8/25/2021		0.645		-0.121 (U)			
2/28/2022					1.3		
3/1/2022	-0.0398 (U)		-0.141 (U)	0.238 (U)		0.428 (U)	9.86
3/3/2022		0.474					
8/15/2022	0.559		0.725			2.38	9.58
8/16/2022		1.18		0.628	2.02		
2/14/2023	0.827	0.753	0.421 (U)	0.605		0.741	8.54

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
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)
2/15/2023					1.59		
9/20/2023	1.04		0.585 (U)				
9/28/2023		0.426 (U)		0.569 (U)	1.4	0.391 (U)	11.4

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.268 (U)	0.182 (U)					0.569
5/19/2016			0.431 (U)	0.0698 (U)	0.219 (U)		
7/19/2016	0.369 (U)						0.29 (U)
7/20/2016		-0.135 (U)	-0.263 (U)	-0.0646 (U)	0.404 (U)		
9/13/2016	0.527 (U)						
9/14/2016		0.311 (U)	0.13 (U)	0.199 (U)	0.692		0.412 (U)
11/10/2016	0.871				1		0.709
11/11/2016		0.542	0.0257 (U)	0.467			
1/18/2017	0.213 (U)						
1/24/2017							0.779
1/27/2017			0.898	0.836	0.668		
2/6/2017		0.104 (U)					
2/8/2017						0.958	
2/23/2017						0.771	
3/14/2017	0.0192 (U)						0.247 (U)
3/15/2017		0.523	0.121 (U)	0.254 (U)	0.847		
3/17/2017						1.7	
4/11/2017						0.901	
4/25/2017	0.0872 (U)						0.515
4/26/2017		0.069 (U)	0.0309 (U)	0.267 (U)	0.408 (U)	0.434	
5/17/2017						0.632	
6/7/2017						1.06	
7/11/2017						0.716	
8/8/2017	0.219 (U)						
8/9/2017					0.816		1.7
8/10/2017		0.189 (U)	0.326 (U)	0.912			
3/28/2018	0.315 (U)						
3/29/2018			0.461	0.419	0.51	0.58	
3/30/2018		0.575					0.0985 (U)
6/14/2018	0.41	0.523	0.275 (U)	-0.263 (U)	0.463	0.55	0.171 (U)
10/3/2018	0.65						0.766
10/4/2018		0.84	1.18	1.29	0.99	0.563	
2/26/2019	0.395						
2/27/2019		0.236 (U)	0.374	0.415	1.08	0.538	0.363 (U)
4/2/2019	0.182 (U)						
4/3/2019			0.187 (U)	0.264 (U)	0.446	0.497	
4/4/2019		0.233 (U)					0.418
9/18/2019	0.299 (U)				0.392	0.376 (U)	0.484
9/19/2019		0.124 (U)	0.338 (U)	0.329 (U)			
2/5/2020	-0.0263 (U)	0.0961 (U)	0.163 (U)	0.225 (U)	0.609	0.5	
2/7/2020							0.125 (U)
3/17/2020	0.258 (U)						
3/18/2020		0.461 (U)	0.866	-0.0262 (U)			0.303 (U)
3/19/2020					0.47	0.376 (U)	
9/22/2020	0.0523 (U)						
9/23/2020		0.442 (U)		0.785			0.448 (U)
9/24/2020			1.2		1.02	0.796	
2/2/2021	0.167 (U)						
2/3/2021			0.718	0.322 (U)			
2/4/2021		0.0332 (U)			0.139 (U)	0.564	0.488 (U)
3/10/2021	0.224 (U)						
3/11/2021		0.42 (U)			0.473	0.764	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.0729 (U)	0.633			0.591
8/24/2021	0.465 (U)						
8/25/2021			0.401	0.443 (U)	0.913	0.705	
8/26/2021		0.321 (U)					0.678
3/3/2022	0.415	0.587	0.622		0.621	0.956	0.358 (U)
3/4/2022				0.408			
8/16/2022	0.653		0.5				
8/17/2022							0.563
8/18/2022				0.279 (U)	0.719		
8/19/2022		0.497 (U)				0.932	
2/14/2023	-0.0224 (U)						
2/15/2023							0.0878 (U)
2/16/2023		0.326 (U)	0.417 (U)	0.388 (U)	0.2 (U)	0.455 (U)	
9/28/2023	-0.139 (U)	-0.112 (U)	0.297 (U)	0.45 (U)	-0.09 (U)	0.277 (U)	0.0271 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	1.03	0.116 (U)					
7/19/2016	2.39						
7/20/2016		0.247 (U)					
9/14/2016	3.05	0.594					
11/10/2016	2.87	0.431					
11/11/2016			-0.11 (U)				
1/20/2017		1.35					
1/24/2017	2.68						
2/6/2017			0.471				
3/14/2017		-0.107 (U)					
3/15/2017	1.64		0.255 (U)				
4/11/2017			0.19 (U)				
4/25/2017	0.878	0.228 (U)					
4/26/2017			0.22 (U)				
6/7/2017			0.126 (U)				
7/11/2017			0.511				
8/9/2017	2.5	-0.0246 (U)					
8/10/2017			0.882				
3/29/2018	1.6		0.252 (U)				
3/30/2018		0.135 (U)					
6/14/2018	1.09	-0.373 (U)	0.0458 (U)				
10/4/2018	1.99	0.775	0.381				
2/26/2019		0.431					
2/27/2019	0.721						
2/28/2019			0.254 (U)				
4/2/2019			0.209 (U)				
4/4/2019	0.632	0.386					
9/18/2019	0.278 (U)	0.167 (U)	0.403 (U)				
2/7/2020	0.797	0.244 (U)	0.2 (U)				
3/18/2020	0.437	0.0655 (U)					
5/4/2020			0.0697 (U)				
9/23/2020	0.276 (U)	0.643	1.18				
2/3/2021			0.684				
2/4/2021	0.727	0.438 (U)					
3/11/2021	0.942	0.247 (U)	0.286 (U)				
8/25/2021	0.518	0.565					
8/26/2021			0.796	1.6	1.17	3.54	0.703
1/11/2022					0.919	6.91	0.218 (U)
1/12/2022				1.09			
3/3/2022	0.573		0.909		1.31		
3/4/2022		0.573		0.925		7.57	0.437 (U)
6/6/2022					2.61		1.45
6/7/2022				0.67		4.67	
8/16/2022		0.668			1.35		
8/17/2022	0.946		0.155 (U)				0.976
8/18/2022				0.994			
8/19/2022						3.07	
2/15/2023	0.734					5.98	0.985
2/16/2023		0.121 (U)	0.248 (U)	0.853	0.617		
9/13/2023				0.591 (U)			
9/21/2023					2.44	4.47	1.91
9/28/2023	0.732	0.533 (U)	0.369 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					0.711 (U)	0.209 (U)
7/20/2016					1.14	-0.084 (U)
9/14/2016						0.42 (U)
9/15/2016					1.26	
11/14/2016					0.749	
2/6/2017					1.05	
2/9/2017						0.393
3/15/2017					1.32	0.271 (U)
4/11/2017						0.488 (U)
4/26/2017					1.07	0.14 (U)
8/10/2017					1.88	0.379
3/29/2018					2.31	0.278 (U)
6/14/2018					1.86	0.157 (U)
10/4/2018					2.44	0.48
2/27/2019					2.42	
2/28/2019						0.271 (U)
4/3/2019					1.55	0.0621 (U)
9/19/2019					2.06	0.537
2/5/2020						-0.137 (U)
2/7/2020					1.66	
3/19/2020					1.21	0.23 (U)
9/22/2020					1.75	
9/23/2020						0.0587 (U)
2/3/2021					2	
2/4/2021						0.353 (U)
3/11/2021					2.38	
3/12/2021						0.831
8/26/2021	1.63	1.12			2.87	0.681
1/11/2022	0.749	0.606				
3/3/2022	0.893				3.18	0.431 (U)
3/4/2022		0.818				
6/6/2022	0.845					
6/7/2022		0.5				
8/16/2022					2.4	
8/17/2022		0.763				0.139 (U)
8/18/2022	1.03					
10/19/2022			3.77	0.185 (U)		
2/15/2023	0.974	0.873				0.0109 (U)
2/16/2023			5.49	2.16	3.04	
9/21/2023	1.62					
9/28/2023		0.581 (U)			2.65	0.209 (U)

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

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	<0.2			<0.1	0.11 (J)
7/20/2016				<0.1	0.17 (J)		
9/13/2016	<0.1	0.15 (J)	<0.2	<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		<0.2				
1/18/2017				<0.1	0.15 (J)		0.11 (J)
1/19/2017		0.087 (J)				<0.1	
3/13/2017	<0.1		<0.2				
3/14/2017		<0.1		<0.1	0.13 (J)	<0.1	<0.2
4/24/2017	<0.1		<0.2				
4/25/2017		<0.1		<0.1	0.12 (J)	<0.1	<0.2
8/8/2017	<0.1	0.087 (J)	<0.2	<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		<0.2				
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			<0.2	<0.1	0.12 (J)		
9/24/2018			<0.2				
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)
8/23/2021			0.097 (J)				
8/24/2021	0.062 (J)				0.17	0.073 (J)	0.16
8/25/2021		0.13		0.077 (J)			
2/28/2022					0.083 (J)		
3/1/2022	<0.1		0.058 (J)	<0.1		<0.1	0.063 (J)
3/3/2022		0.078 (J)					

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
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)
8/15/2022	<0.1		0.057 (J)			<0.1	0.093 (J)
8/16/2022		0.06 (J)		<0.1	0.12		
2/14/2023	<0.1	0.053 (J)	0.07 (J)	0.041 (J)		<0.1	0.11
2/15/2023					0.14		
8/22/2023	<0.1	0.051 (J)	0.061 (J)	0.04 (J)	0.14	<0.1	0.12

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.018 (J)	0.206					0.779
5/19/2016			0.039 (J)	0.12 (J)	0.384		
7/19/2016	<0.1						0.97
7/20/2016		0.23	<0.1	0.11 (J)	0.34		
9/13/2016	<0.1						
9/14/2016		0.17 (J)	<0.1	0.095 (J)	0.31		0.89
11/10/2016	<0.1				0.26		0.88
11/11/2016		0.14 (J)	<0.1	<0.2			
1/18/2017	<0.1						
1/24/2017							0.92
1/27/2017			<0.1	<0.2	0.28		
2/6/2017		0.15 (J)					
2/8/2017						<0.1	
2/23/2017						<0.1	
3/14/2017	<0.1						0.77
3/15/2017		0.16 (J)	<0.1	<0.2	0.3		
3/17/2017						<0.1	
4/11/2017						<0.1	
4/25/2017	<0.1						0.95
4/26/2017		0.17 (J)	<0.1	<0.2	0.33	<0.1	
5/17/2017						<0.1	
6/7/2017						<0.1	
7/11/2017						<0.1	
8/8/2017	<0.1						
8/9/2017					0.32		0.91
8/10/2017		0.2	<0.1	0.11 (J)			
10/11/2017	<0.1					<0.1	0.88
10/12/2017		0.14 (J)	<0.1	0.091 (J)	0.28		
3/28/2018	<0.1						
3/29/2018			<0.1	0.089 (J)	0.27	<0.1	
3/30/2018		0.13 (J)					0.79
6/14/2018	<0.1	0.15 (J)	<0.1	0.1 (J)	0.27	<0.1	0.79
10/3/2018	<0.1						0.79
10/4/2018		0.18 (J)	<0.1	0.12 (J)	0.23	<0.1	
2/26/2019	<0.1						
2/27/2019		0.21	0.047 (J)	0.06 (J)	0.25	<0.1	0.81
4/2/2019	<0.1						
4/3/2019			0.048 (J)	0.084 (J)	0.24	0.048 (J)	
4/4/2019		0.13 (J)					0.78
9/18/2019	0.027 (J)				0.22	0.035 (J)	0.81
9/19/2019		0.13 (J)	0.037 (J)	0.093 (J)			
2/5/2020	0.026 (J)	0.14	0.045 (J)	0.098 (J)	0.2	0.04 (J)	
2/7/2020							0.79
3/17/2020	0.044 (J)						
3/18/2020		0.052 (J)	<0.1	0.033 (J)			0.71
3/19/2020					0.15	<0.1	
9/22/2020	<0.1						
9/23/2020		0.09 (J)		0.064 (J)			0.63
9/24/2020			0.18		<0.1	0.028 (J)	
2/2/2021	<0.1						
2/3/2021			0.027 (J)	0.082 (J)			
2/4/2021		0.12			0.16	0.033 (J)	0.69

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/10/2021	<0.1						
3/11/2021		0.15			0.18	0.04 (J)	
3/12/2021			0.044 (J)	0.096 (J)			0.88
8/24/2021	0.054 (J)						
8/25/2021			0.056 (J)	0.14	0.2	0.071 (J)	
8/26/2021		0.16					0.77
3/3/2022	0.038 (J)	0.067 (J)	0.055 (J)		0.21	0.057 (J)	0.88
3/4/2022				0.068 (J)			
8/16/2022	<0.1		<0.1				
8/17/2022							0.68
8/18/2022				0.073 (J)	0.14		
8/19/2022		0.1				<0.1	
2/14/2023	<0.1						
2/15/2023							0.73
2/16/2023		0.11	0.041 (J)	0.089 (J)	0.15	<0.1	
8/22/2023	<0.1						
8/23/2023		0.1	0.041 (J)	0.083 (J)	0.13	0.04 (J)	0.73

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.1 (J)	0.121 (J)					
7/19/2016	0.14 (J)						
7/20/2016		0.16 (J)					
9/14/2016	0.18 (J)	0.19 (J)					
11/10/2016	0.11 (J)	0.15 (J)					
11/11/2016			0.32				
1/20/2017		0.18 (J)					
1/24/2017	0.15 (J)						
2/6/2017			0.45				
3/14/2017		0.11 (J)					
3/15/2017	0.1 (J)		0.37				
4/11/2017			0.37				
4/25/2017	0.13 (J)	0.13 (J)					
4/26/2017			0.4				
6/7/2017			0.35				
7/11/2017			0.39				
8/9/2017	0.18 (J)	0.19 (J)					
8/10/2017			0.42				
10/11/2017	<2	0.14 (J)					
10/12/2017			0.36				
3/29/2018	0.13 (J)		0.34				
3/30/2018		0.095 (J)					
6/14/2018	<2	0.11 (J)	0.35				
10/4/2018	0.85 (J)	0.11 (J)	0.35				
2/26/2019		0.068 (J)					
2/27/2019	0.47						
2/28/2019			0.28				
4/2/2019			0.33				
4/4/2019	0.08 (J)	0.087 (J)					
9/18/2019	0.058 (J)	0.066 (J)	0.32				
2/7/2020	0.072 (J)	0.079 (J)	0.35				
3/18/2020	0.084 (J)	<0.1					
5/4/2020			0.36				
9/23/2020	0.049 (J)	0.05 (J)	0.25				
2/3/2021			0.3				
2/4/2021	0.052 (J)	0.064 (J)					
3/8/2021				1.8			
3/9/2021					1.7	1.1	0.092 (J)
3/11/2021	0.061 (J)	0.05 (J)	0.31				
4/7/2021					1.6		0.093 (J)
4/8/2021				1.7		1.4	
8/25/2021	0.099 (J)	0.093 (J)					
8/26/2021			0.38	2	2	0.51	0.081 (J)
1/11/2022					1.9	0.45	0.045 (J)
1/12/2022				1.8			
3/3/2022	0.067 (J)		0.4		1.8		
3/4/2022		0.06 (J)		2		0.42	0.045 (J)
6/6/2022					1.9		0.028 (J)
6/7/2022				2.5		0.37	
8/16/2022		0.06 (J)			1.8		
8/17/2022	0.062 (J)		0.28				0.043 (J)
8/18/2022				2			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
8/19/2022						0.31	
2/15/2023	0.076 (J)					0.31	0.048 (J)
2/16/2023		0.069 (J)	0.33	1.9	1.9		
8/17/2023				2.1			
8/22/2023	0.065 (J)						
8/23/2023		0.064 (J)	0.34		1.8	0.32	0.045 (J)

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					0.304	1.58
7/20/2016					0.27	2
9/14/2016						1.8
9/15/2016					0.24	
11/14/2016					0.2	
2/6/2017					0.27	
2/9/2017						1.3
3/15/2017					0.25	1.3
4/11/2017						1.4
4/26/2017					0.31	1.5
8/10/2017					0.37	1.6
10/12/2017					0.35	1.5
3/29/2018					0.36	1.4
6/14/2018					0.56	1.4
10/4/2018					0.27	1.4
2/27/2019					0.054 (J)	
2/28/2019						1.4
4/3/2019					0.5	1.3
9/19/2019					0.42	1.3
2/5/2020						1.3
2/7/2020					0.25	
3/19/2020					0.057 (J)	1
9/22/2020					0.14	
9/23/2020						0.82
2/3/2021					0.15	
2/4/2021						0.91
3/8/2021		<0.1				
3/9/2021	1					
3/11/2021					0.16	
3/12/2021						0.98
4/7/2021	1.1					
4/8/2021		0.028 (J)				
8/26/2021	1.2	0.047 (J)			0.21	1
1/11/2022	1	0.028 (J)				
3/3/2022	0.71				0.19	1
3/4/2022		0.038 (J)				
6/6/2022	0.43					
6/7/2022		<0.1				
8/16/2022					0.21	
8/17/2022		<0.1				0.9
8/18/2022	0.24					
10/19/2022			1.8	0.52		
2/15/2023	0.63	<0.1				0.85
2/16/2023			1.7	0.92	0.14	
8/17/2023			2.2	1.1		
8/22/2023		0.049 (J)			0.15 (J)	0.9
8/23/2023	0.28					

Time Series

Constituent: Lead (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

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
8/23/2021			0.00023 (J)				
8/24/2021	<0.001				<0.001	<0.001	<0.001
8/25/2021		<0.001		<0.001			
2/28/2022					<0.001		
3/1/2022	<0.001		<0.001	<0.001		<0.001	<0.001
3/3/2022		<0.001					
8/15/2022	<0.001		<0.001			<0.001	0.00019 (J)
8/16/2022		<0.001		<0.001	<0.001		
2/14/2023	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
2/15/2023					<0.001		
8/18/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001	<0.001					<0.001
5/19/2016			<0.001	<0.001	<0.001		
7/19/2016	<0.001						<0.001
7/20/2016		<0.001	<0.001	<0.001	<0.001		
9/13/2016	<0.001						
9/14/2016		<0.001	<0.001	<0.001	0.00055 (J)		<0.001
11/10/2016	<0.001				0.00047 (J)		<0.001
11/11/2016		<0.001	<0.001	<0.001			
1/18/2017	<0.001						
1/24/2017							<0.001
1/27/2017			<0.001	<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	<0.001	<0.001		
3/17/2017						<0.001	
4/11/2017						<0.001	
4/25/2017	<0.001						<0.001
4/26/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
5/17/2017						<0.001	
6/7/2017						<0.001	
7/11/2017						<0.001	
8/8/2017	<0.001						
8/9/2017					<0.001		<0.001
8/10/2017		<0.001	<0.001	<0.001			
3/28/2018	<0.001						
3/29/2018			<0.001	<0.001	<0.001	<0.001	
3/30/2018		<0.001					<0.001
2/26/2019	<0.001						
2/27/2019		0.00023 (J)	0.00058 (J)	<0.001	0.00068 (J)	<0.001	<0.001
4/2/2019	<0.001						
4/3/2019			<0.001	<0.001	0.00047 (J)	<0.001	
4/4/2019		<0.001					<0.001
9/18/2019	<0.001				0.00045 (J)	<0.001	<0.001
9/19/2019		0.00041 (J)	<0.001	<0.001			
2/5/2020	<0.001	0.00016 (J)	<0.001	<0.001	0.00045 (J)	<0.001	
2/7/2020							<0.001
3/17/2020	<0.001						
3/18/2020		0.00021 (J)	<0.001	<0.001			<0.001
3/19/2020					0.0006 (J)	0.00017 (J)	
9/22/2020	<0.001						
9/23/2020		0.00013 (J)		<0.001			<0.001
9/24/2020			0.00037 (J)		<0.001	0.00018 (J)	
2/2/2021	<0.001						
2/3/2021			<0.001	<0.001			
2/4/2021		0.00019 (J)			0.00038 (J)	0.00013 (J)	0.0003 (J)
3/10/2021	<0.001						
3/11/2021		0.00032 (J)			0.00075 (J)	0.00031 (J)	
3/12/2021			0.00038 (J)	<0.001			<0.001
8/24/2021	<0.001						
8/25/2021			0.00023 (J)	<0.001	0.00025 (J)	0.00041 (J)	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/26/2021		0.00026 (J)					<0.001
3/3/2022	<0.001	0.00025 (J)	<0.001		0.00023 (J)	0.00057 (J)	<0.001
3/4/2022				0.00033 (J)			
8/16/2022	<0.001		<0.001				
8/17/2022							<0.001
8/18/2022				<0.001	0.0011		
8/19/2022		0.0003 (J)				0.00036 (J)	
2/14/2023	<0.001						
2/15/2023							<0.001
2/16/2023		<0.001	<0.001	<0.001	0.00027 (J)	0.00024 (J)	
8/18/2023	<0.001						
8/21/2023		<0.001	<0.001	<0.001	0.00025 (J)	0.00022 (J)	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.001	<0.001					
7/19/2016	<0.001						
7/20/2016		<0.001					
9/14/2016	<0.001	<0.001					
11/10/2016	<0.001	<0.001					
11/11/2016			<0.001				
1/20/2017		<0.001					
1/24/2017	<0.001						
2/6/2017			<0.001				
3/14/2017		<0.001					
3/15/2017	<0.001		<0.001				
4/11/2017			<0.001				
4/25/2017	<0.001	<0.001					
4/26/2017			<0.001				
6/7/2017			<0.001				
7/11/2017			<0.001				
8/9/2017	<0.001	<0.001					
8/10/2017			<0.001				
3/29/2018	<0.001		<0.001				
3/30/2018		<0.001					
2/26/2019		0.00033 (J)					
2/27/2019	0.00014 (J)						
2/28/2019			<0.001				
4/2/2019			<0.001				
4/4/2019	<0.001	<0.001					
9/18/2019	<0.001	<0.001	<0.001				
2/7/2020	<0.001	<0.001	<0.001				
3/18/2020	<0.001	0.0002 (J)					
5/4/2020			<0.001				
9/23/2020	<0.001	<0.001	<0.001				
2/3/2021			<0.001				
2/4/2021	0.00013 (J)	<0.001					
3/11/2021	<0.001	<0.001	<0.001				
8/25/2021	<0.001	<0.001					
8/26/2021			<0.001	<0.001	<0.001	0.00022 (J)	<0.001
1/11/2022					<0.001	0.00023 (J)	<0.001
1/12/2022				<0.001			
3/3/2022	<0.001		0.0003 (J)		<0.001		
3/4/2022		<0.001		<0.001		0.00036 (J)	<0.001
6/6/2022					<0.001		<0.001
6/7/2022				<0.001		<0.001	
8/16/2022		<0.001			<0.001		
8/17/2022	<0.001		<0.001				<0.001
8/18/2022				<0.001			
8/19/2022						0.00037 (J)	
2/15/2023	<0.001					0.00023 (J)	0.0046
2/16/2023		<0.001	<0.001	<0.001	<0.001		
8/15/2023				<0.001			
8/18/2023	<0.001						
8/21/2023		<0.001	<0.001		<0.001	<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					<0.001	<0.001
7/20/2016					<0.001	<0.001
9/14/2016						<0.001
9/15/2016					<0.001	
11/14/2016					<0.001	
2/6/2017					<0.001	
2/9/2017						<0.001
3/15/2017					<0.001	<0.001
4/11/2017						<0.001
4/26/2017					<0.001	<0.001
8/10/2017					<0.001	<0.001
3/29/2018					<0.001	<0.001
2/27/2019					0.00017 (J)	
2/28/2019						0.00014 (J)
4/3/2019					<0.001	<0.001
9/19/2019					<0.001	<0.001
2/5/2020						<0.001
2/7/2020					<0.001	
3/19/2020					0.00016 (J)	<0.001
9/22/2020					0.00013 (J)	
9/23/2020						<0.001
2/3/2021					0.00013 (J)	
2/4/2021						<0.001
3/11/2021					<0.001	
3/12/2021						<0.001
8/26/2021	0.0012	<0.001			0.00014 (J)	<0.001
1/11/2022	0.00082 (J)	<0.001				
3/3/2022	0.00076 (J)				0.00052 (J)	<0.001
3/4/2022		<0.001				
6/6/2022	0.00047 (J)					
6/7/2022		<0.001				
8/16/2022					0.00041 (J)	
8/17/2022		<0.001				<0.001
8/18/2022	0.00032 (J)					
10/19/2022			<0.001	<0.001		
2/15/2023	0.00056 (J)	<0.001				<0.001
2/16/2023			<0.001	<0.001	0.00029 (J)	
8/15/2023			<0.001	<0.001		
8/18/2023		<0.001			<0.001	
8/21/2023	0.00029 (J)					<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

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
8/23/2021			0.0066				
8/24/2021	<0.005				0.0036 (J)	<0.005	0.0041 (J)
8/25/2021		<0.005		<0.005			
2/28/2022					0.005		
3/1/2022	0.0029 (J)		0.0085	<0.005		<0.005	0.006
3/3/2022		<0.005					
8/15/2022	0.0032 (J)		0.007			<0.005	0.0047 (J)
8/16/2022		<0.005		<0.005	0.0043 (J)		

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
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)
2/14/2023	0.0029 (J)	<0.005	0.006	<0.005		<0.005	0.0045 (J)
2/15/2023					0.0041 (J)		
8/18/2023	<0.005	<0.005	0.0026 (J)	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.05 (O)	0.032					<0.005
5/19/2016			<0.005	<0.05	<0.005		
7/19/2016	<0.005						0.0036 (J)
7/20/2016		0.021	<0.005	0.0057	<0.005		
9/13/2016	<0.005						
9/14/2016		0.02	<0.005	0.0077	<0.005		<0.005
11/10/2016	<0.005				0.0038 (J)		0.0064
11/11/2016		0.017	<0.005	0.007			
1/18/2017	<0.005						
1/24/2017							0.0075
1/27/2017			<0.005	0.0074	<0.005		
2/6/2017		0.016					
2/8/2017						0.0039 (J)	
2/23/2017						<0.005	
3/14/2017	<0.005						0.0057
3/15/2017		0.014	<0.005	0.0077	<0.005		
3/17/2017						<0.005	
4/11/2017						<0.005	
4/25/2017	<0.005						0.0059
4/26/2017		0.011	<0.005	0.0011	<0.005	<0.005	
5/17/2017						0.0033 (J)	
6/7/2017						<0.005	
7/11/2017						<0.005	
8/8/2017	<0.005						
8/9/2017					<0.005		0.0068
8/10/2017		0.011	<0.005	0.0064			
3/28/2018	0.0014 (J)						
3/29/2018			0.0018 (J)	0.01	0.0022 (J)	0.0025 (J)	
3/30/2018		0.016					0.0077
6/14/2018	<0.005	0.0084	0.0011 (J)	0.0062	0.0018 (J)	0.0018 (J)	0.0052
10/3/2018	<0.005						0.006
10/4/2018		0.0085	0.0014 (J)	0.0066	0.0025 (J)	0.0016 (J)	
2/26/2019	<0.005						
2/27/2019		0.0068	<0.005	0.0068	<0.005	<0.005	0.0055
4/2/2019	<0.005						
4/3/2019			<0.005	0.0075	<0.005	0.0015 (J)	
4/4/2019		0.0059					0.0054
9/18/2019	<0.005				<0.005	<0.005	0.0054
9/19/2019		0.0075	<0.005	0.0067			
2/5/2020	<0.005	0.0061	<0.005	0.0063	<0.005	<0.005	
2/7/2020							0.0068
3/17/2020	<0.005						
3/18/2020		0.0071	<0.005	0.0081			0.0086
3/19/2020					<0.005	<0.005	
9/22/2020	<0.005						
9/23/2020		0.0054		0.007			0.0071
9/24/2020			<0.005		<0.005	<0.005	
2/2/2021	<0.005						
2/3/2021			<0.005	0.0075			
2/4/2021		0.0049 (J)			<0.005	<0.005	0.0086
3/10/2021	<0.005						
3/11/2021		0.0051			0.0037 (J)	0.0035 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.005	0.0089			0.0096
8/24/2021	<0.005						
8/25/2021			<0.005	0.0061	<0.005	<0.005	
8/26/2021		0.0044 (J)					0.0059
3/3/2022	<0.005	0.0038 (J)	<0.005		0.0018 (J)	0.0019 (J)	0.0068
3/4/2022				0.0061			
8/16/2022	<0.005		0.00092 (J)				
8/17/2022							0.0073
8/18/2022				0.0063	0.0024 (J)		
8/19/2022		0.0049 (J)				0.0021 (J)	
2/14/2023	<0.005						
2/15/2023							0.0062
2/16/2023		0.0025 (J)	<0.005	0.0036 (J)	<0.005	<0.005	
8/18/2023	<0.005						
8/21/2023		0.0024 (J)	<0.005	0.0056	<0.005	<0.005	0.0055

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.005	<0.05					
7/19/2016	0.0091						
7/20/2016		0.0042 (J)					
9/14/2016	0.012	0.0058					
11/10/2016	0.013	0.0066					
11/11/2016			0.045				
1/20/2017		0.0044 (J)					
1/24/2017	0.011						
2/6/2017			0.05				
3/14/2017		0.0048 (J)					
3/15/2017	0.01		0.052				
4/11/2017			0.048				
4/25/2017	0.0081	0.0049 (J)					
4/26/2017			0.044				
6/7/2017			0.047				
7/11/2017			0.045				
8/9/2017	0.013	0.0067					
8/10/2017			0.056				
3/29/2018	0.015		0.072				
3/30/2018		0.0067					
6/14/2018	0.009	0.0046 (J)	0.048				
10/4/2018	0.012	0.005	0.062				
2/26/2019		0.0063					
2/27/2019	0.0075						
2/28/2019			0.045				
4/2/2019			0.052				
4/4/2019	0.0077	0.0042 (J)					
9/18/2019	0.0056	0.0047 (J)	0.052				
2/7/2020	0.0053	0.0045 (J)	0.044				
3/18/2020	0.0057	0.0054					
5/4/2020			0.049				
9/23/2020	0.0059	0.0056	0.056				
2/3/2021			0.06				
2/4/2021	0.0051	0.0047 (J)					
3/8/2021				0.11			
3/9/2021					0.022	0.011	<0.005
3/11/2021	0.005	0.0049 (J)	0.051				
4/7/2021					0.031		<0.005
4/8/2021				0.11		0.0081	
8/25/2021	0.0046 (J)	0.0048 (J)					
8/26/2021			0.057	0.11	0.032	0.011	<0.005
1/11/2022					0.038	0.011	<0.005
1/12/2022				0.15			
3/3/2022	0.0041 (J)		0.057		0.044		
3/4/2022		0.0042 (J)		0.14		0.011	0.0015 (J)
6/6/2022					0.051		0.002 (J)
6/7/2022				0.12		0.0093	
8/16/2022		0.0053			0.059		
8/17/2022	0.0042 (J)		0.056				0.0017 (J)
8/18/2022				0.11			
8/19/2022						0.01	
2/15/2023	0.0044 (J)					0.009	<0.005

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
2/16/2023		0.0026 (J)	0.053	0.14	0.053		
8/15/2023				0.13			
8/18/2023	<0.005						
8/21/2023		0.0031 (J)	0.062		0.061	0.0069	<0.005

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					0.0215	0.0335
7/20/2016					0.026	0.024
9/14/2016						0.039
9/15/2016					0.057	
11/14/2016					0.017	
2/6/2017					0.012	
2/9/2017						0.04
3/15/2017					0.014	0.035
4/11/2017						0.034
4/26/2017					0.0091	0.029
8/10/2017					0.013	0.038
3/29/2018					0.018	0.048
6/14/2018					0.015	0.034
10/4/2018					0.013	0.039
2/27/2019					0.014	
2/28/2019						0.037
4/3/2019					0.015	0.035
9/19/2019					0.014	0.036
2/5/2020						0.034
2/7/2020					0.014	
3/19/2020					0.015	0.039
9/22/2020					0.013	
9/23/2020						0.033
2/3/2021					0.014	
2/4/2021						0.035
3/8/2021		0.0046 (J)				
3/9/2021	0.0084					
3/11/2021					0.013	
3/12/2021						0.034
4/7/2021	0.0077					
4/8/2021		0.0044 (J)				
8/26/2021	0.0076	0.0044 (J)			0.013	0.03
1/11/2022	0.0091	0.0043 (J)				
3/3/2022	0.0066				0.014	0.03
3/4/2022		0.0035 (J)				
6/6/2022	0.0044 (J)					
6/7/2022		0.004 (J)				
8/16/2022					0.014	
8/17/2022		0.0036 (J)				0.028
8/18/2022	0.0036 (J)					
10/19/2022			0.16	0.0072		
2/15/2023	0.0068	0.0031 (J)				0.033
2/16/2023			0.17	0.024	0.01	
8/15/2023			0.15	0.036		
8/18/2023		<0.005			0.0084	
8/21/2023	0.0022 (J)					0.03

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 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
2/28/2022					<0.0002		
3/1/2022	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002
3/3/2022		<0.0002					
8/15/2022	<0.0002		<0.0002			<0.0002	<0.0002
8/16/2022		<0.0002		<0.0002	<0.0002		
2/14/2023	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
2/15/2023					<0.0002		
8/22/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0002	<0.0002					<0.0002
5/19/2016			<0.0002	<0.0002	<0.0002		
7/19/2016	7.2E-05 (J)						9.3E-05 (J)
7/20/2016		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
11/10/2016	8.7E-05 (J)				8.3E-05 (J)		8.5E-05 (J)
11/11/2016		8.5E-05 (J)	0.00011 (J)	7.9E-05 (J)			
1/18/2017	<0.0002						
1/24/2017							<0.0002
1/27/2017			<0.0002	<0.0002	<0.0002		
2/6/2017		8.3E-05 (J)					
2/8/2017						<0.0002	
2/23/2017						<0.0002	
3/14/2017	<0.0002						7.1E-05 (J)
3/15/2017		0.00013 (J)	<0.0002	0.00018 (J)	<0.0002		
3/17/2017						0.00013 (J)	
4/11/2017						<0.0002	
4/25/2017	<0.0002						<0.0002
4/26/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
5/17/2017						<0.0002	
6/7/2017						<0.0002	
7/11/2017						<0.0002	
8/8/2017	<0.0002						
8/9/2017					<0.0002		<0.0002
8/10/2017		<0.0002	<0.0002	<0.0002			
3/28/2018	<0.0002						
3/29/2018			<0.0002	0.00011 (J)	<0.0002	<0.0002	
3/30/2018		<0.0002					8.6E-05 (J)
6/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/3/2018	<0.0002						<0.0002
10/4/2018		<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	<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			<0.0002
3/19/2020					<0.0002	<0.0002	
9/22/2020	<0.0002						
9/23/2020		<0.0002		<0.0002			<0.0002
9/24/2020			<0.0002		<0.0002	<0.0002	
2/2/2021	<0.0002						
2/3/2021			<0.0002	<0.0002			
2/4/2021		<0.0002			<0.0002	<0.0002	<0.0002
3/3/2022	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/4/2022				<0.0002			
8/16/2022	<0.0002		<0.0002				
8/17/2022							<0.0002
8/18/2022				<0.0002	<0.0002		
8/19/2022		<0.0002				<0.0002	
2/14/2023	<0.0002						

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/15/2023							<0.0002
2/16/2023		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/22/2023	<0.0002						
8/24/2023		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.0002	<0.0002					
7/19/2016	<0.0002						
7/20/2016		7.4E-05 (J)					
9/14/2016	<0.0002	<0.0002					
11/10/2016	0.00012 (J)	<0.0002					
11/11/2016			7.6E-05 (J)				
1/20/2017		<0.0002					
1/24/2017	7E-05 (J)						
2/6/2017			0.00012 (J)				
3/14/2017		<0.0002					
3/15/2017	<0.0002		<0.0002				
4/11/2017			<0.0002				
4/25/2017	0.00019 (J)	<0.0002					
4/26/2017			<0.0002				
6/7/2017			<0.0002				
7/11/2017			<0.0002				
8/9/2017	<0.0002	<0.0002					
8/10/2017			<0.0002				
3/29/2018	<0.0002		<0.0002				
3/30/2018		<0.0002					
6/14/2018	<0.0002	<0.0002	<0.0002				
10/4/2018	<0.0002	<0.0002	<0.0002				
2/26/2019		<0.0002					
2/27/2019	<0.0002						
2/28/2019			<0.0002				
2/7/2020	<0.0002	<0.0002	<0.0002				
3/18/2020	<0.0002	<0.0002					
5/4/2020			<0.0002				
9/23/2020	<0.0002	<0.0002	<0.0002				
2/3/2021			<0.0002				
2/4/2021	<0.0002	<0.0002					
8/26/2021				0.00033	0.0002	0.00018 (J)	0.00022
1/11/2022					<0.0002	<0.0002	<0.0002
1/12/2022				<0.0002			
3/3/2022	<0.0002		<0.0002		<0.0002		
3/4/2022		<0.0002		<0.0002		<0.0002	<0.0002
6/6/2022					<0.0002		<0.0002
6/7/2022				<0.0002		<0.0002	
8/16/2022		<0.0002			<0.0002		
8/17/2022	<0.0002		<0.0002				<0.0002
8/18/2022				<0.0002			
8/19/2022						<0.0002	
2/15/2023	<0.0002					<0.0002	<0.0002
2/16/2023		<0.0002	<0.0002	<0.0002	<0.0002		
8/18/2023				<0.0002			
8/22/2023	<0.0002						
8/24/2023		<0.0002	<0.0002		<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					<0.0002	<0.0002
7/20/2016					<0.0002	<0.0002
9/14/2016						<0.0002
9/15/2016					0.00011 (J)	
11/14/2016					<0.0002	
2/6/2017					7.8E-05 (J)	
2/9/2017						<0.0002
3/15/2017					0.00013 (J)	0.00013 (J)
4/11/2017						<0.0002
4/26/2017					<0.0002	<0.0002
8/10/2017					<0.0002	<0.0002
3/29/2018					<0.0002	<0.0002
6/14/2018					<0.0002	<0.0002
10/4/2018					<0.0002	<0.0002
2/27/2019					<0.0002	
2/28/2019						<0.0002
2/5/2020						<0.0002
2/7/2020					<0.0002	
3/19/2020					<0.0002	<0.0002
9/22/2020					<0.0002	
9/23/2020						<0.0002
2/3/2021					<0.0002	
2/4/2021						<0.0002
8/26/2021	0.00026	0.0019				
1/11/2022	<0.0002	<0.0002				
3/3/2022	<0.0002				<0.0002	<0.0002
3/4/2022		<0.0002				
6/6/2022	<0.0002					
6/7/2022		<0.0002				
8/16/2022					<0.0002	
8/17/2022		<0.0002				<0.0002
8/18/2022	<0.0002					
10/19/2022			<0.0002	<0.0002		
2/15/2023	<0.0002	<0.0002				<0.0002
2/16/2023			<0.0002	<0.0002	<0.0002	
8/18/2023			<0.0002	<0.0002		
8/22/2023		<0.0002			<0.0002	
8/24/2023	<0.0002					<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

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
8/23/2021			<0.015				
8/24/2021	<0.015				<0.015	<0.015	<0.015
8/25/2021		<0.015		<0.015			
2/28/2022					<0.015		
3/1/2022	<0.015		<0.015	<0.015		<0.015	<0.015
3/3/2022		<0.015					
8/15/2022	<0.015		<0.015			<0.015	<0.015
8/16/2022		<0.015		<0.015	<0.015		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
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)
2/14/2023	<0.015	<0.015	<0.015	<0.015		<0.015	<0.015
2/15/2023					<0.015		
8/18/2023	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.015	<0.015					0.0153
5/19/2016			<0.015	<0.015	0.00491 (J)		
7/19/2016	<0.015						0.0093 (J)
7/20/2016		<0.015	<0.015	0.00095 (J)	0.0025 (J)		
9/13/2016	<0.015						
9/14/2016		0.00091 (J)	<0.015	0.0009 (J)	0.0028 (J)		0.012 (J)
11/10/2016	<0.015				0.0016 (J)		0.0065 (J)
11/11/2016		<0.015	<0.015	<0.015			
1/18/2017	0.001 (J)						
1/24/2017							0.0049 (J)
1/27/2017			<0.015	<0.015	0.0023 (J)		
2/6/2017		<0.015					
2/8/2017						<0.015	
2/23/2017						<0.015	
3/14/2017	0.0014 (J)						0.0034 (J)
3/15/2017		<0.015	<0.015	<0.015	0.0022 (J)		
3/17/2017						<0.015	
4/11/2017						<0.015	
4/25/2017	<0.015						0.004 (J)
4/26/2017		<0.015	<0.015	<0.015	0.0019 (J)	<0.015	
5/17/2017						<0.015	
6/7/2017						0.001 (J)	
7/11/2017						<0.015	
8/8/2017	<0.015						
8/9/2017					0.0028 (J)		0.0042 (J)
8/10/2017		0.00093 (J)	0.0011 (J)	0.0046 (J)			
3/28/2018	<0.015						
3/29/2018			<0.015	<0.015	0.0028 (J)	<0.015	
3/30/2018		<0.015					0.0049 (J)
6/14/2018	<0.015	<0.015	<0.015	<0.015	0.0018 (J)	<0.015	0.0056 (J)
10/3/2018	<0.015						0.0041 (J)
10/4/2018		<0.015	<0.015	<0.015	<0.015	<0.015	
2/26/2019	<0.015						
2/27/2019		<0.015	<0.015	0.00063 (J)	0.0019 (J)	<0.015	0.0061
4/2/2019	<0.015						
4/3/2019			<0.015	<0.015	<0.015	<0.015	
4/4/2019		<0.015					0.0039 (J)
9/18/2019	<0.015				0.0021 (J)	<0.015	0.0052
9/19/2019		<0.015	<0.015	0.00073 (J)			
2/5/2020	<0.015	<0.015	<0.015	<0.015	0.0012 (J)	<0.015	
2/7/2020							0.0024 (J)
3/17/2020	<0.015						
3/18/2020		<0.015	<0.015	<0.015			0.002 (J)
3/19/2020					0.0018 (J)	<0.015	
9/22/2020	<0.015						
9/23/2020		<0.015		<0.015			0.0031 (J)
9/24/2020			0.0017 (J)		<0.015	<0.015	
2/2/2021	<0.015						
2/3/2021			<0.015	<0.015			
2/4/2021		<0.015			0.0012 (J)	<0.015	0.0022 (J)
3/10/2021	<0.015						
3/11/2021		<0.015			0.0013 (J)	<0.015	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.015	0.00062 (J)			0.0019 (J)
8/24/2021	<0.015						
8/25/2021			<0.015	<0.015	0.00092 (J)	<0.015	
8/26/2021		<0.015					0.0029 (J)
3/3/2022	<0.015	<0.015	<0.015		0.00094 (J)	<0.015	0.0025 (J)
3/4/2022				<0.015			
8/16/2022	<0.015		<0.015				
8/17/2022							0.0025 (J)
8/18/2022				<0.015	0.00087 (J)		
8/19/2022		<0.015				<0.015	
2/14/2023	<0.015						
2/15/2023							0.0027 (J)
2/16/2023		<0.015	<0.015	<0.015	0.0013 (J)	<0.015	
8/18/2023	<0.015						
8/21/2023		<0.015	<0.015	<0.015	0.0012 (J)	<0.015	0.003 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.015	0.00526 (J)					
7/19/2016	<0.015						
7/20/2016		0.0066 (J)					
9/14/2016	<0.015	0.0081 (J)					
11/10/2016	<0.015	0.0076 (J)					
11/11/2016			<0.015				
1/20/2017		0.0094 (J)					
1/24/2017	<0.015						
2/6/2017			0.001 (J)				
3/14/2017		0.0044 (J)					
3/15/2017	<0.015		<0.015				
4/11/2017			<0.015				
4/25/2017	<0.015	0.0074 (J)					
4/26/2017			<0.015				
6/7/2017			0.0015 (J)				
7/11/2017			<0.015				
8/9/2017	<0.015	0.0066 (J)					
8/10/2017			0.0016 (J)				
3/29/2018	<0.015		0.0012 (J)				
3/30/2018		0.0024 (J)					
6/14/2018	<0.015	0.0026 (J)	0.0014 (J)				
10/4/2018	<0.015	0.00085 (J)	<0.015				
2/26/2019		0.0032 (J)					
2/27/2019	<0.015						
2/28/2019			0.0013 (J)				
4/2/2019			<0.015				
4/4/2019	<0.015	0.002 (J)					
9/18/2019	<0.015	0.0026 (J)	0.0011 (J)				
2/7/2020	<0.015	0.0025 (J)	0.0014 (J)				
3/18/2020	<0.015	0.0024 (J)					
5/4/2020			0.0013 (J)				
9/23/2020	<0.015	0.0027 (J)	0.0013 (J)				
2/3/2021			0.0013 (J)				
2/4/2021	<0.015	0.0025 (J)					
3/11/2021	<0.015	0.0022 (J)	0.0012 (J)				
8/25/2021	<0.015	0.0022 (J)					
8/26/2021			0.0011 (J)	0.00079 (J)	0.044	<0.015	<0.015
1/11/2022					0.037	<0.015	<0.015
1/12/2022				0.00062 (J)			
3/3/2022	<0.015		0.0013 (J)		0.036		
3/4/2022		0.0021 (J)		<0.015		0.00084 (J)	<0.015
6/6/2022					0.032		<0.015
6/7/2022				<0.015		<0.015	
8/16/2022		0.0024 (J)			0.042		
8/17/2022	<0.015		0.001 (J)				<0.015
8/18/2022				<0.015			
8/19/2022						<0.015	
2/15/2023	<0.015					<0.015	<0.015
2/16/2023		0.0022 (J)	0.0014 (J)	<0.015	0.034		
8/15/2023				<0.015			
8/18/2023	<0.015						
8/21/2023		0.0023 (J)	0.0013 (J)		0.029	<0.015	<0.015

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					<0.015	0.00762 (J)
7/20/2016					<0.015	0.0084 (J)
9/14/2016						0.0071 (J)
9/15/2016					<0.015	
11/14/2016					<0.015	
2/6/2017					<0.015	
2/9/2017						0.018
3/15/2017					<0.015	0.0057 (J)
4/11/2017						0.0047 (J)
4/26/2017					<0.015	0.004 (J)
8/10/2017					<0.015	0.0046 (J)
3/29/2018					<0.015	0.0048 (J)
6/14/2018					<0.015	0.0046 (J)
10/4/2018					<0.015	0.003 (J)
2/27/2019					<0.015	
2/28/2019						0.0053
4/3/2019					<0.015	0.0026 (J)
9/19/2019					<0.015	0.0048 (J)
2/5/2020						0.0044 (J)
2/7/2020					<0.015	
3/19/2020					<0.015	0.0042 (J)
9/22/2020					<0.015	
9/23/2020						0.0027 (J)
2/3/2021					<0.015	
2/4/2021						0.003 (J)
3/11/2021					<0.015	
3/12/2021						0.003 (J)
8/26/2021	<0.015	<0.015			<0.015	0.0028 (J)
1/11/2022	<0.015	<0.015				
3/3/2022	<0.015				<0.015	0.0027 (J)
3/4/2022		<0.015				
6/6/2022	<0.015					
6/7/2022		<0.015				
8/16/2022					<0.015	
8/17/2022		<0.015				0.0027 (J)
8/18/2022	<0.015					
10/19/2022			0.0087 (J)	<0.015		
2/15/2023	<0.015	<0.015				0.0025 (J)
2/16/2023			0.006 (J)	<0.015	<0.015	
8/15/2023			0.0037 (J)	<0.015		
8/18/2023		<0.015			<0.015	
8/21/2023	<0.015					0.0031 (J)

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

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
8/23/2021			6.18				
8/24/2021	5.21				7.22	6.8	7.88
8/25/2021		6.74		5.52			
2/28/2022					7.14		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
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)
3/1/2022	5.32		6.2	5.59		5.47	7.86
3/3/2022		5.94					
8/15/2022	5.28		6.04			6.54	7.76
8/16/2022		6.19		5.46	6.92		
2/14/2023	5.37	5.89	6.06	5.49		5.3	7.78
2/15/2023					7.21		
8/14/2023	5.09		6.06				
8/15/2023		6.01		5.34	6.47	6.6	7.93

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	5.5	8.96					7.75
5/19/2016			5.93	6.91	6.85		
7/18/2016			5.9661				
7/19/2016	5.43						7.876073
7/20/2016		8.56774		6.962608	6.705264		
9/1/2016				6.96			
9/13/2016	5.57						
9/14/2016					6.7		7.79
11/10/2016	6.93				6.5		7.76
11/11/2016		6.96	6.03	6.76			
1/18/2017	7.16						
1/24/2017							7.71
1/27/2017			6.21	6.66	6.47		
2/6/2017		6.93					
2/8/2017						5.81	
2/23/2017						5.8	
3/14/2017	5.82						7.57
3/15/2017		6.82	5.97	6.3	6.75		
3/17/2017						5.97	
4/11/2017						6.18	
4/25/2017	5.57						7.47
4/26/2017		6.73	6.17	6.67	6.57	6.09	
5/17/2017						6.26	
6/7/2017						6.21	
7/11/2017						6	
8/8/2017	5.6						
8/9/2017					6.55		7.37
8/10/2017		6.66	6.05	6.7			
10/11/2017	5.43					6.97	7.42
10/12/2017		6.67	6.89	6.89	6.67		
3/28/2018	5.29						
3/29/2018			6.85	7.08	6.99	6.51	
3/30/2018		6.98					7.48
6/14/2018	5.39	6.56	5.89	6.73	6.39	5.76	7.5
10/3/2018	5.33						7.11
10/4/2018		6.4	5.81	6.79	6.5	5.97	
2/26/2019	5.62						
2/27/2019		6.23	5.78	6.7	6.47	5.73	7.4
4/2/2019	5.6						
4/3/2019			6.07	6.91	6.47	5.68	
4/4/2019		6.46					7.58
9/18/2019	5.6				6.46	5.5	7.8
9/19/2019		6.45	5.82	6.63			
2/5/2020	5.54	6.42	5.89	6.76	6.44	5.52	
2/7/2020							7.66
3/17/2020	5.32						
3/18/2020		6.4	5.89	6.94			7.73
3/19/2020					6.56	5.49	
9/22/2020	5.36						
9/23/2020		6.14		6.42			7.35
9/24/2020			5.5		6.29	5.16	
2/2/2021	5.84						

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/3/2021			5.21	6.15			
2/4/2021		6.21			6.34	5.76	7.77
3/10/2021	4.96						
3/11/2021		6.56			5.95	5.1	
3/12/2021			5.46	6.66			7.72
8/24/2021	5.53						
8/25/2021			5.66	6.69	6.27	5.39	
8/26/2021		6.31					7.58
3/3/2022	5.49	6.36	5.59		6.31	5.4	7.61
3/4/2022				6.79			
8/16/2022	5.32		5.56				
8/17/2022							7.54
8/18/2022				6.52	6.15		
8/19/2022		6.2				5.25	
2/14/2023	5.44						
2/15/2023							7.72
2/16/2023		6.39	5.69	6.61	6.27	5.4	
8/15/2023	5.49						
8/16/2023			5.17	6.1	6.22	5.17	7.41
8/17/2023		6.49					

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	6.06	6.41					
7/18/2016	5.884339						
7/20/2016		6.662463					
9/14/2016	5.89	6.7					
11/10/2016	5.6	6.51					
11/11/2016			6.93				
1/20/2017		6.55					
1/24/2017	5.54						
2/6/2017			6.8				
3/14/2017		6.27					
3/15/2017	5.39		6.78				
4/11/2017			6.79				
4/25/2017	5.28	6.26					
4/26/2017			6.82				
6/7/2017			6.76				
7/11/2017			6.99				
8/9/2017	5.46	6.47					
8/10/2017			6.59				
10/11/2017	5.45	6.47					
10/12/2017			6.7				
3/29/2018	5.33		6.88				
3/30/2018		6.71					
6/14/2018	5.35	6.15	6.72				
10/4/2018	5.28	6.14	6.67				
2/26/2019		6.17					
2/27/2019	5.08						
2/28/2019			6.98				
4/2/2019			6.75				
4/4/2019	5.19	6.16					
9/18/2019	5.19	6.17	6.71				
2/7/2020	5.17	6.34	7.08				
3/18/2020	5.08	6.28					
5/4/2020			6.9				
9/23/2020	5.05	5.89	6.59				
2/3/2021			6.75				
2/4/2021	5.42	6.31					
3/8/2021				5.54			
3/9/2021					7.29	5.56	5.81
3/11/2021	5.21	5.96	7.12				
4/7/2021					7.05		5.57
4/8/2021				5.6		6.01	
8/25/2021	5.25	6.09					
8/26/2021			6.66	5.37	6.88	5.4	5.8
1/11/2022					6.68	5.4	5.61
1/12/2022				5.19			
3/3/2022	5.22		6.69		6.88		
3/4/2022		6.21		5.23		5.34	5.74
6/6/2022					6.69		5.73
6/7/2022				5.39		5.41	
8/16/2022		6.02			6.72		
8/17/2022	5.24		6.6				5.64
8/18/2022				5.29			

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
8/19/2022						5.34	
2/15/2023	5.19					5.47	5.49
2/16/2023		6.28	6.8	5.17	6.92		
8/11/2023				5.31			
8/15/2023	5.07						
8/16/2023		6.13	6.44				
8/17/2023					6.91	5.41	5.66

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					5.99	6.31
7/20/2016					6.194334	6.345061
9/14/2016						6.33
9/15/2016					6.38	
11/14/2016					5.7	
2/6/2017					5.66	
3/15/2017					5.77	5.99
4/26/2017					5.39	6.03
8/10/2017					5.59	5.86
10/12/2017					5.46	6.09
3/29/2018					5.43	5.89
6/14/2018					5.76	6.47
10/4/2018					5.39	6.17
2/28/2019						6.045 (D)
4/3/2019					5.55	6.1
9/19/2019					5.39	6.38
2/5/2020						6.54
2/7/2020					5.38	
3/19/2020					6.43	6.64
9/22/2020					5.17	
9/23/2020						5.8
2/3/2021					5.08	
2/4/2021						6.22
3/8/2021		5.36				
3/9/2021	4.29					
3/11/2021					5.35	
3/12/2021						5.88
4/7/2021	4.43					
4/8/2021		5.39				
8/26/2021	4.33	5.3			5.36	5.84
1/11/2022	4.39	5.26				
3/3/2022	4.39				5.21	5.86
3/4/2022		5.21				
6/6/2022	4.52					
6/7/2022		5.32				
8/16/2022					5.4	
8/17/2022		5.28				5.8
8/18/2022	4.42					
10/19/2022			6.27	5.93		
2/15/2023	4.54	5.36				5.86
2/16/2023			5.52	5.91	5.22	
8/11/2023			5.68	6.07		
8/15/2023		5.97			5.43	
8/16/2023						5.78
8/17/2023	4.37					

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

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
8/23/2021			<0.005				
8/24/2021	<0.005				<0.005	<0.005	<0.005
8/25/2021		<0.005		<0.005			
2/28/2022					<0.005		
3/1/2022	<0.005		<0.005	<0.005		<0.005	<0.005
3/3/2022		<0.005					
8/15/2022	<0.005		<0.005			<0.005	<0.005
8/16/2022		<0.005		<0.005	<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
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)
2/14/2023	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
2/15/2023					<0.005		
8/18/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.005	<0.005					<0.005
5/19/2016			<0.005	<0.005	<0.005		
7/19/2016	<0.005						<0.005
7/20/2016		<0.005	<0.005	<0.005	<0.005		
9/13/2016	<0.005						
9/14/2016		<0.005	<0.005	<0.005	<0.005		<0.005
11/10/2016	<0.005				<0.005		<0.005
11/11/2016		<0.005	<0.005	<0.005			
1/18/2017	<0.005						
1/24/2017							<0.005
1/27/2017			<0.005	<0.005	<0.005		
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		<0.005	<0.005	<0.005	<0.005		
3/17/2017						<0.005	
4/11/2017						<0.005	
4/25/2017	<0.005						<0.005
4/26/2017		<0.005	<0.005	<0.005	<0.005	<0.005	
5/17/2017						<0.005	
6/7/2017						<0.005	
7/11/2017						<0.005	
8/8/2017	<0.005						
8/9/2017					<0.005		<0.005
8/10/2017		0.00031 (J)	0.00049 (J)	0.0021			
3/28/2018	<0.005						
3/29/2018			<0.005	<0.005	<0.005	0.0003 (J)	
3/30/2018		<0.005					<0.005
6/14/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0005 (J)
10/3/2018	<0.005						<0.005
10/4/2018		<0.005	<0.005	<0.005	<0.005	<0.005	
2/26/2019	<0.005						
2/27/2019		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/2/2019	<0.005						
4/3/2019			<0.005	<0.005	<0.005	<0.005	
4/4/2019		<0.005					<0.005
9/18/2019	<0.005				<0.005	<0.005	<0.005
9/19/2019		<0.005	<0.005	<0.005			
2/5/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/7/2020							<0.005
3/17/2020	<0.005						
3/18/2020		<0.005	<0.005	<0.005			<0.005
3/19/2020					<0.005	<0.005	
9/22/2020	<0.005						
9/23/2020		<0.005		<0.005			<0.005
9/24/2020			<0.005		<0.005	<0.005	
2/2/2021	<0.005						
2/3/2021			<0.005	<0.005			
2/4/2021		<0.005			<0.005	<0.005	<0.005
3/10/2021	<0.005						
3/11/2021		<0.005			<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.005	<0.005			<0.005
8/24/2021	<0.005						
8/25/2021			<0.005	<0.005	<0.005	<0.005	
8/26/2021		<0.005					<0.005
3/3/2022	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
3/4/2022				<0.005			
8/16/2022	<0.005		<0.005				
8/17/2022							<0.005
8/18/2022				<0.005	<0.005		
8/19/2022		<0.005				<0.005	
2/14/2023	<0.005						
2/15/2023							<0.005
2/16/2023		<0.005	<0.005	<0.005	<0.005	<0.005	
8/18/2023	<0.005						
8/21/2023		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.00735	<0.005					
7/19/2016	0.0075						
7/20/2016		<0.005					
9/14/2016	0.0091	<0.005					
11/10/2016	0.0056	<0.005					
11/11/2016			<0.005				
1/20/2017		<0.005					
1/24/2017	0.012						
2/6/2017			<0.005				
3/14/2017		<0.005					
3/15/2017	0.012		<0.005				
4/11/2017			<0.005				
4/25/2017	0.013	<0.005					
4/26/2017			<0.005				
6/7/2017			<0.005				
7/11/2017			<0.005				
8/9/2017	0.016	<0.005					
8/10/2017			0.00036 (J)				
3/29/2018	0.016		<0.005				
3/30/2018		<0.005					
6/14/2018	0.012	<0.005	<0.005				
10/4/2018	0.013	<0.005	<0.005				
2/26/2019		<0.005					
2/27/2019	0.0081						
2/28/2019			<0.005				
4/2/2019			<0.005				
4/4/2019	0.0091	<0.005					
9/18/2019	0.0044 (J)	<0.005	<0.005				
2/7/2020	0.0036 (J)	<0.005	<0.005				
3/18/2020	0.0046 (J)	<0.005					
5/4/2020			<0.005				
9/23/2020	0.0028 (J)	<0.005	<0.005				
2/3/2021			<0.005				
2/4/2021	0.0023 (J)	<0.005					
3/11/2021	0.0023 (J)	<0.005	<0.005				
8/25/2021	0.0019 (J)	<0.005					
8/26/2021			<0.005	0.0016 (J)	<0.005	0.0049 (J)	0.002 (J)
1/11/2022					<0.005	0.0065	0.0024 (J)
1/12/2022				<0.005			
3/3/2022	0.0018 (J)		<0.005		<0.005		
3/4/2022		<0.005		0.0014 (J)		0.0072	0.002 (J)
6/6/2022					<0.005		0.0018 (J)
6/7/2022				0.0014 (J)		0.0047 (J)	
8/16/2022		<0.005			<0.005		
8/17/2022	<0.005		<0.005				0.0013 (J)
8/18/2022				0.0027 (J)			
8/19/2022						0.0035 (J)	
2/15/2023	0.0019 (J)					0.0077	0.0026 (J)
2/16/2023		<0.005	<0.005	0.0017 (J)	<0.005		
8/15/2023				0.0016 (J)			
8/18/2023	0.0018 (J)						
8/21/2023		<0.005	<0.005		<0.005	0.0038 (J)	0.0024 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					0.00518	0.00228
7/20/2016					0.0038	0.0016
9/14/2016						0.0024
9/15/2016					0.0034	
11/14/2016					0.0033	
2/6/2017					0.0033	
2/9/2017						0.0023
3/15/2017					0.003	0.0031
4/11/2017						0.0023
4/26/2017					0.0032	0.0019
8/10/2017					0.0031	0.0021
3/29/2018					0.0034	0.0021
6/14/2018					0.0031	0.0025
10/4/2018					0.0033	0.002
2/27/2019					0.0035	
2/28/2019						0.0027
4/3/2019					0.0031	0.0019
9/19/2019					0.0021 (J)	0.0026 (J)
2/5/2020						0.0033 (J)
2/7/2020					0.0048 (J)	
3/19/2020					0.0037 (J)	0.0033 (J)
9/22/2020					0.0039 (J)	
9/23/2020						0.0029 (J)
2/3/2021					0.0036 (J)	
2/4/2021						0.003 (J)
3/11/2021					0.0038 (J)	
3/12/2021						0.0034 (J)
8/26/2021	<0.005	<0.005			0.0037 (J)	0.0028 (J)
1/11/2022	<0.005	<0.005				
3/3/2022	0.00077 (J)				0.0038 (J)	0.0021 (J)
3/4/2022		<0.005				
6/6/2022	<0.005					
6/7/2022		<0.005				
8/16/2022					0.0075	
8/17/2022		<0.005				0.0022 (J)
8/18/2022	<0.005					
10/19/2022			0.0014 (J)	<0.005		
2/15/2023	<0.005	<0.005				0.0037 (J)
2/16/2023			0.0012 (J)	<0.005	0.0033 (J)	
8/15/2023			0.0016 (J)	<0.005		
8/18/2023		<0.005			0.0037 (J)	
8/21/2023	<0.005					0.0036 (J)

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/10/2023 12:22 PM View: Time Series & Box Plot

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
8/23/2021			1.3				
8/24/2021	<1				7.9	2.8	8.9
8/25/2021		8.2		0.79 (J)			
2/28/2022					8.4		
3/1/2022	<1		1.6	0.98 (J)		0.99 (J)	9.2
3/3/2022		8.5					
8/15/2022	<1		0.54 (J)			1.6	7.5
8/16/2022		7.2		0.52 (J)	6.9		
2/14/2023	<1	7.3	0.66 (J)	0.65 (J)		0.66 (J)	7.9
2/15/2023					7.8		
8/22/2023	<1	6.8	0.74 (J)	0.71 (J)	7.4	1.2	7.3

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/10/2023 12:23 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.368 (J)	2.84					50.7
5/19/2016			1.83	15.8	19.2		
7/19/2016	<1						62
7/20/2016		2.8	1.6	16	11		
9/13/2016	<1						
9/14/2016		2.8	1.5	16	8.6		79
11/10/2016	<1				5.7		61
11/11/2016		2.6	1.4	14			
1/18/2017	1.4						
1/24/2017							34
1/27/2017			2.5	15	6.8		
2/6/2017		2.7					
2/8/2017						4.3	
2/23/2017						16	
3/14/2017	<1						43
3/15/2017		2.7	2.5	17	11		
3/17/2017						22	
4/11/2017						13	
4/25/2017	<1						39
4/26/2017		2.5	2.2	15	8.1	20	
5/17/2017						12	
6/7/2017						8.1	
7/11/2017						17	
8/8/2017	<1						
8/9/2017					8.1		35
8/10/2017		2.2	2.3	16			
10/11/2017	<1					3.4	48
10/12/2017		1.9	1.9	14	6.1		
6/14/2018	<1	2	1.7	14	5	5.8	44
10/3/2018	<1						49
10/4/2018		1.9	1.6	14	4.3	2.8	
4/2/2019	0.4 (J)						
4/3/2019			1.9	13	3.8	3.8	
4/4/2019		2.2					41
9/18/2019	<1				3.9	1.7	37
9/19/2019		2.1	1.3	14			
3/17/2020	0.86 (J)						
3/18/2020		2.1	1.6	12			17
3/19/2020					4	1.5	
9/22/2020	0.38 (J)						
9/23/2020		1.8		12			21
9/24/2020			2.7		0.63 (J)	1.2	
3/10/2021	<1						
3/11/2021		2.8			2.9	1.7	
3/12/2021			2	14			19
8/24/2021	<1						
8/25/2021			1.1	13	1.8	<1	
8/26/2021		1.8					16
3/3/2022	<1	2	2.3		3	1.3	18
3/4/2022				14			
8/16/2022	<1		0.98 (J)				
8/17/2022							14

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/10/2023 12:23 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/18/2022				11	1.7		
8/19/2022		1.6				<1	
2/14/2023	<1						
2/15/2023							14
2/16/2023		1.8	1	2.8	2.3	0.47 (J)	
8/22/2023	0.45 (J)						
8/23/2023		1.7	1	12	2.1	0.52 (J)	13

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/10/2023 12:23 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	388	32.1					
7/19/2016	460						
7/20/2016		9.7					
9/14/2016	500	6.6					
11/10/2016	530	5.2					
11/11/2016			3.4				
1/20/2017		5.3					
1/24/2017	600						
2/6/2017			3.7				
3/14/2017		9.6					
3/15/2017	610		3.6				
4/11/2017			3.2				
4/25/2017	620	20					
4/26/2017			3.3				
6/7/2017			3.8				
7/11/2017			3.3				
8/9/2017	780	6.5					
8/10/2017			3.7				
10/11/2017	720	13					
10/12/2017			3.6				
6/14/2018	620	16	3.5				
10/4/2018	560	15	4.6				
4/2/2019			3.8				
4/4/2019	250	9.1					
9/18/2019	130	7.3	3.6				
3/18/2020	120	4.2					
5/4/2020			4.5				
9/23/2020	85	4.4	3				
3/8/2021				240			
3/9/2021					230	80	14
3/11/2021	64	3.9	4				
4/7/2021					190		5.1
4/8/2021				240		60	
8/25/2021	63	3.3					
8/26/2021			3.5	290	190	100	7.5
1/11/2022					260	140	5.3
1/12/2022				360			
3/3/2022	57		4.8		250		
3/4/2022		3.6		390		150	5
6/6/2022					140		5.3
6/7/2022				280		96	
8/16/2022		3.4			240		
8/17/2022	49		2.8				5.5
8/18/2022				280			
8/19/2022						87	
2/15/2023	54					110	5.2
2/16/2023		2.6	3	350	340		
8/17/2023				330			
8/22/2023	52						
8/23/2023		2.6	2.6		310	71	4.9

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/10/2023 12:23 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					146	35.9
7/20/2016					150	37
9/14/2016						39
9/15/2016					140	
11/14/2016					160	
2/6/2017					180	
2/9/2017						60
3/15/2017					170	44
4/11/2017						36
4/26/2017					180	37
8/10/2017					180	38
10/12/2017					180	37
6/14/2018					170	37
10/4/2018					780	38
4/3/2019					180	41
9/19/2019					190	42
3/19/2020					200	45
9/22/2020					200	
9/23/2020						54
3/8/2021		4.7				
3/9/2021	140					
3/11/2021					220	
3/12/2021						62
4/7/2021	160					
4/8/2021		5.8				
8/26/2021	170	13			220	52
1/11/2022	160	21				
3/3/2022	130				250	58
3/4/2022		21				
6/6/2022	67					
6/7/2022		22				
8/16/2022					220	
8/17/2022		25				50
8/18/2022	49					
10/19/2022			290	12		
2/15/2023	120	27				65
2/16/2023			370	29	250	
8/17/2023			350	31		
8/22/2023		19			240	50
8/23/2023	50					

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/10/2023 12:23 PM View: Time Series & Box Plot

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
8/23/2021			<0.001				
8/24/2021	<0.001				<0.001	<0.001	<0.001
8/25/2021		<0.001		<0.001			
2/28/2022					<0.001		
3/1/2022	<0.001		<0.001	<0.001		<0.001	<0.001
3/3/2022		<0.001					
8/15/2022	<0.001		<0.001			<0.001	<0.001
8/16/2022		<0.001		<0.001	<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/10/2023 12:23 PM View: Time Series & Box Plot
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)
2/14/2023	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
2/15/2023					<0.001		
8/18/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/10/2023 12:23 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001	<0.001					<0.001
5/19/2016			<0.001	<0.001	<0.001		
7/19/2016	<0.001						<0.001
7/20/2016		<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
11/10/2016	<0.001				<0.001		<0.001
11/11/2016		<0.001	<0.001	<0.001			
1/18/2017	<0.001						
1/24/2017							<0.001
1/27/2017			<0.001	<0.001	<0.001		
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		<0.001	<0.001	<0.001	<0.001		
3/17/2017						<0.001	
4/11/2017						<0.001	
4/25/2017	<0.001						<0.001
4/26/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
5/17/2017						<0.001	
6/7/2017						<0.001	
7/11/2017						<0.001	
8/8/2017	<0.001						
8/9/2017					<0.001		<0.001
8/10/2017		<0.001	<0.001	<0.001			
3/28/2018	<0.001						
3/29/2018			<0.001	<0.001	<0.001	0.0002 (J)	
3/30/2018		8.5E-05 (J)					<0.001
6/14/2018	<0.001	<0.001	<0.001	<0.001	<0.001	0.00014 (J)	<0.001
10/3/2018	<0.001						<0.001
10/4/2018		<0.001	<0.001	<0.001	<0.001	0.00013 (J)	
2/26/2019	<0.001						
2/27/2019		<0.001	<0.001	<0.001	<0.001	0.00016 (J)	<0.001
4/2/2019	<0.001						
4/3/2019			<0.001	<0.001	<0.001	0.00012 (J)	
4/4/2019		<0.001					<0.001
9/18/2019	<0.001				<0.001	<0.001	<0.001
9/19/2019		<0.001	<0.001	<0.001			
2/5/2020	0.00026 (J)	<0.001	<0.001	<0.001	<0.001	0.00022 (J)	
2/7/2020							<0.001
3/17/2020	<0.001						
3/18/2020		<0.001	<0.001	<0.001			<0.001
3/19/2020					<0.001	0.00017 (J)	
9/22/2020	<0.001						
9/23/2020		<0.001		<0.001			<0.001
9/24/2020			<0.001		<0.001	<0.001	
2/2/2021	<0.001						
2/3/2021			0.00016 (J)	<0.001			
2/4/2021		<0.001			<0.001	0.00021 (J)	<0.001
3/10/2021	<0.001						
3/11/2021		<0.001			<0.001	0.00019 (J)	

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/10/2023 12:23 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.001	<0.001			<0.001
8/24/2021	<0.001						
8/25/2021			<0.001	<0.001	<0.001	<0.001	
8/26/2021		<0.001					<0.001
3/3/2022	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
3/4/2022				<0.001			
8/16/2022	<0.001		<0.001				
8/17/2022							<0.001
8/18/2022				<0.001	<0.001		
8/19/2022		<0.001				<0.001	
2/14/2023	<0.001						
2/15/2023							<0.001
2/16/2023		<0.001	<0.001	<0.001	<0.001	<0.001	
8/18/2023	<0.001						
8/21/2023		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/10/2023 12:23 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.001	<0.001					
7/19/2016	8.5E-05 (J)						
7/20/2016		<0.001					
9/14/2016	0.00017 (J)	<0.001					
11/10/2016	0.00017 (J)	<0.001					
11/11/2016			<0.001				
1/20/2017		<0.001					
1/24/2017	0.00023 (J)						
2/6/2017			<0.001				
3/14/2017		<0.001					
3/15/2017	0.00021 (J)		<0.001				
4/11/2017			<0.001				
4/25/2017	0.00024 (J)	<0.001					
4/26/2017			<0.001				
6/7/2017			<0.001				
7/11/2017			<0.001				
8/9/2017	0.0002 (J)	<0.001					
8/10/2017			<0.001				
3/29/2018	0.00019 (J)		<0.001				
3/30/2018		<0.001					
6/14/2018	0.00017 (J)	<0.001	<0.001				
10/4/2018	0.00015 (J)	<0.001	<0.001				
2/26/2019		<0.001					
2/27/2019	0.00015 (J)						
2/28/2019			<0.001				
4/2/2019			<0.001				
4/4/2019	9.5E-05 (J)	<0.001					
9/18/2019	<0.001	<0.001	<0.001				
2/7/2020	<0.001	<0.001	<0.001				
3/18/2020	<0.001	<0.001					
5/4/2020			<0.001				
9/23/2020	<0.001	<0.001	<0.001				
2/3/2021			0.00018 (J)				
2/4/2021	<0.001	<0.001					
3/11/2021	<0.001	<0.001	<0.001				
8/25/2021	<0.001	<0.001					
8/26/2021			<0.001	<0.001	<0.001	<0.001	<0.001
1/11/2022					<0.001	<0.001	<0.001
1/12/2022				<0.001			
3/3/2022	<0.001		<0.001		<0.001		
3/4/2022		<0.001		<0.001		0.00047 (J)	<0.001
6/6/2022					<0.001		<0.001
6/7/2022				<0.001		<0.001	
8/16/2022		<0.001			<0.001		
8/17/2022	<0.001		<0.001				<0.001
8/18/2022				<0.001			
8/19/2022						<0.001	
2/15/2023	<0.001					<0.001	<0.001
2/16/2023		<0.001	<0.001	<0.001	<0.001		
8/15/2023				<0.001			
8/18/2023	<0.001						
8/21/2023		<0.001	<0.001		<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/10/2023 12:23 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					<0.001	<0.001
7/20/2016					<0.001	<0.001
9/14/2016						<0.001
9/15/2016					<0.001	
11/14/2016					<0.001	
2/6/2017					<0.001	
2/9/2017						<0.001
3/15/2017					<0.001	<0.001
4/11/2017						<0.001
4/26/2017					<0.001	<0.001
8/10/2017					<0.001	<0.001
3/29/2018					<0.001	<0.001
6/14/2018					<0.001	<0.001
10/4/2018					<0.001	<0.001
2/27/2019					<0.001	
2/28/2019						<0.001
4/3/2019					<0.001	<0.001
9/19/2019					<0.001	<0.001
2/5/2020						<0.001
2/7/2020					<0.001	
3/19/2020					<0.001	<0.001
9/22/2020					<0.001	
9/23/2020						<0.001
2/3/2021					<0.001	
2/4/2021						<0.001
3/11/2021					<0.001	
3/12/2021						<0.001
8/26/2021	0.00072 (J)	<0.001			<0.001	<0.001
1/11/2022	0.00062 (J)	<0.001				
3/3/2022	0.0006 (J)				<0.001	<0.001
3/4/2022		<0.001				
6/6/2022	0.00052 (J)					
6/7/2022		<0.001				
8/16/2022					<0.001	
8/17/2022		<0.001				<0.001
8/18/2022	0.0003 (J)					
10/19/2022			<0.001	<0.001		
2/15/2023	0.00045 (J)	<0.001				<0.001
2/16/2023			<0.001	<0.001	<0.001	
8/15/2023			<0.001	<0.001		
8/18/2023		<0.001			<0.001	
8/21/2023	0.00028 (J)					<0.001

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/10/2023 12:23 PM View: Time Series & Box Plot

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			<5	92
7/20/2016				<5	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				<5	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
8/23/2021			110				
8/24/2021	32				110	150	120
8/25/2021		92		21			
2/28/2022					95		
3/1/2022	30		92	31		23	140
3/3/2022		43					
8/15/2022	45		100			140	120
8/16/2022		60		30	110		
2/14/2023	34	42	100	27		24	120
2/15/2023					100		
8/18/2023	37		110				
8/19/2023		56		34	110	82	130

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/10/2023 12:23 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	31	70					190
5/19/2016			39	101	127		
7/19/2016	<5						180
7/20/2016		42	<10	76	88		
9/13/2016	<5						
9/14/2016		40	24	96	92		230
11/10/2016	44				100		210
11/11/2016		72	42	100			
1/18/2017	50						
1/24/2017							140
1/27/2017			18	50	80		
2/6/2017		24					
2/8/2017						54	
2/23/2017						78	
3/14/2017	26						220
3/15/2017		78	54	120	100		
3/17/2017						56	
4/11/2017						76	
4/25/2017	10						180
4/26/2017		48	42	100	92	76	
5/17/2017						68	
6/7/2017						72	
7/11/2017						68	
8/8/2017	<5						
8/9/2017					120		180
8/10/2017		38	30	96			
10/11/2017	42					68	200
10/12/2017		72	54	100	110		
6/14/2018	14	40	16	94	88	52	170
10/3/2018	6						260
10/4/2018		60	56	110	100	130	
4/2/2019	15						
4/3/2019			<10	66	72	31	
4/4/2019		30					170
9/18/2019	35				110	33	160
9/19/2019		52	27	89			
3/17/2020	19						
3/18/2020		58	26	73			160
3/19/2020					95	18	
9/22/2020	15						
9/23/2020		50		90			150
9/24/2020			60		21	24	
3/10/2021	20						
3/11/2021		52			63	24	
3/12/2021			27	78			130
8/24/2021	24						
8/25/2021			32	110	53	30	
8/26/2021		60					150
3/3/2022	17	45	21		71	17	140
3/4/2022				89			
8/16/2022	22		33				
8/17/2022							140

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/10/2023 12:23 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/18/2022				88	89		
8/19/2022		63				26	
2/14/2023	24						
2/15/2023							130
2/16/2023		54	33	89	81	27	
8/19/2023	29						
8/22/2023		56			84		150
8/24/2023			33	92		29	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/10/2023 12:23 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	1080	107					
7/19/2016	1200						
7/20/2016		78					
9/14/2016	1300	82					
11/10/2016	1400	98					
11/11/2016			98				
1/20/2017		82					
1/24/2017	1300						
2/6/2017			36				
3/14/2017		120					
3/15/2017	1500		120				
4/11/2017			68				
4/25/2017	1700	120					
4/26/2017			76				
6/7/2017			74				
7/11/2017			70				
8/9/2017	1900	92					
8/10/2017			66				
10/11/2017	1900	74					
10/12/2017			100				
6/14/2018	1500	100	74				
10/4/2018	1700	98	100				
4/2/2019			88				
4/4/2019	710	89					
9/18/2019	520	79	96				
3/18/2020	370	98					
5/4/2020			110				
9/23/2020	250	60	94				
3/8/2021				590			
3/9/2021					610	200	79
3/11/2021	190	75	100				
4/7/2021					520		66
4/8/2021				540		170	
8/25/2021	220	84					
8/26/2021			94	720	480	240	88
1/11/2022					580	270	67
1/12/2022				1200			
3/3/2022	170		98		580		
3/4/2022		55		1100		260	69
6/6/2022					670		90
6/7/2022				920		210	
8/16/2022		81			530		
8/17/2022	170		93				85
8/18/2022				760			
8/19/2022						190	
2/15/2023	160					210	71
2/16/2023		77	100	960	630		
8/16/2023				910			
8/19/2023	160						
8/22/2023		81			690		
8/24/2023			100			180	73

Time Series

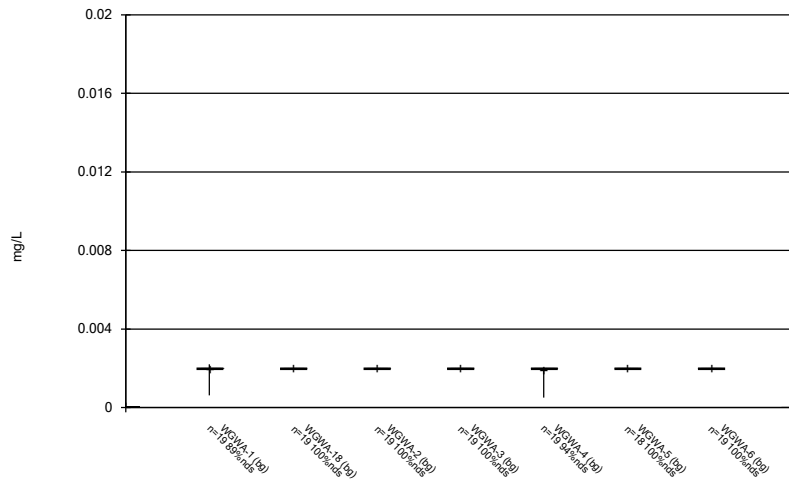
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/10/2023 12:23 PM View: Time Series & Box Plot

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-26D	WGWC-27	WGWC-8	WGWC-9
5/19/2016					311	134
7/20/2016					290	120
9/14/2016						140
9/15/2016					270	
11/14/2016					320	
2/6/2017					330	
2/9/2017						180
3/15/2017					370	160
4/11/2017						120
4/26/2017					380	140
8/10/2017					380	130
10/12/2017					450	120
6/14/2018					410	120
10/4/2018					520	140
4/3/2019					430	120
9/19/2019					440	130
3/19/2020					540	160
9/22/2020					600	
9/23/2020						150
3/8/2021		220				
3/9/2021	370					
3/11/2021					530	
3/12/2021						130
4/7/2021	510					
4/8/2021		180				
8/26/2021	420	200			550	170
1/11/2022	320	220				
3/3/2022	280				530	140
3/4/2022		200				
6/6/2022	210					
6/7/2022		240				
8/16/2022					580	
8/17/2022		210				150
8/18/2022	140					
10/19/2022			840	92		
2/15/2023	230	200				160
2/16/2023			1100	160	590	
8/18/2023			950	180		
8/19/2023		180			680	
8/22/2023						110
8/24/2023	150					

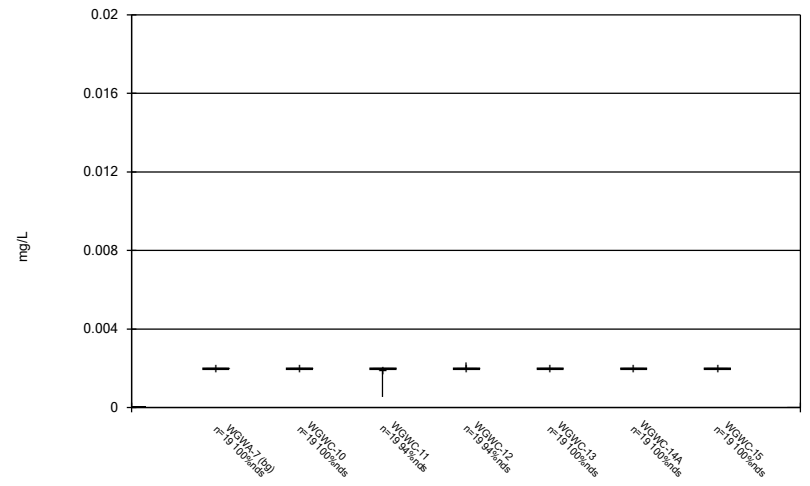
FIGURE B.

Box & Whiskers Plot



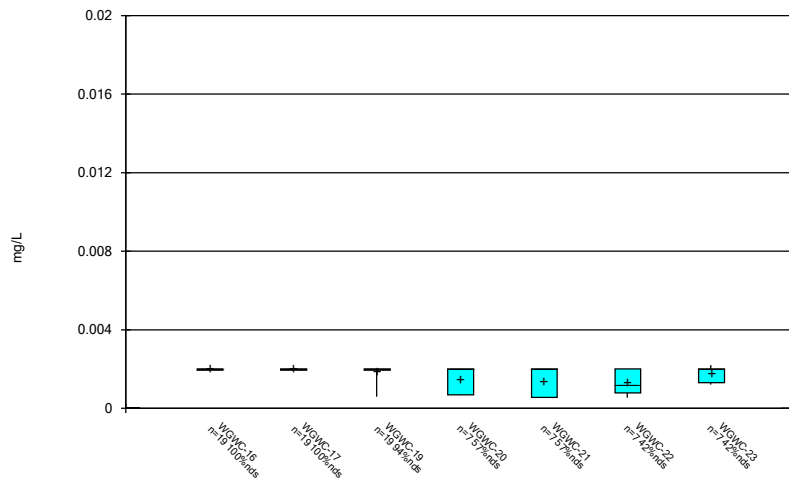
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



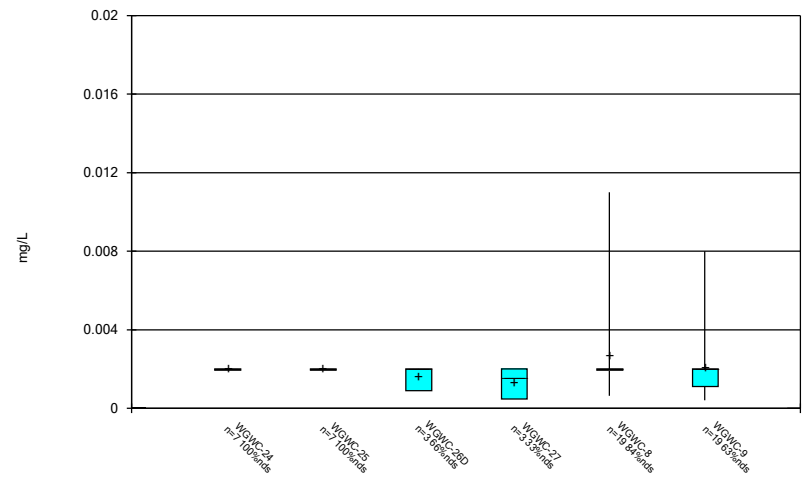
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



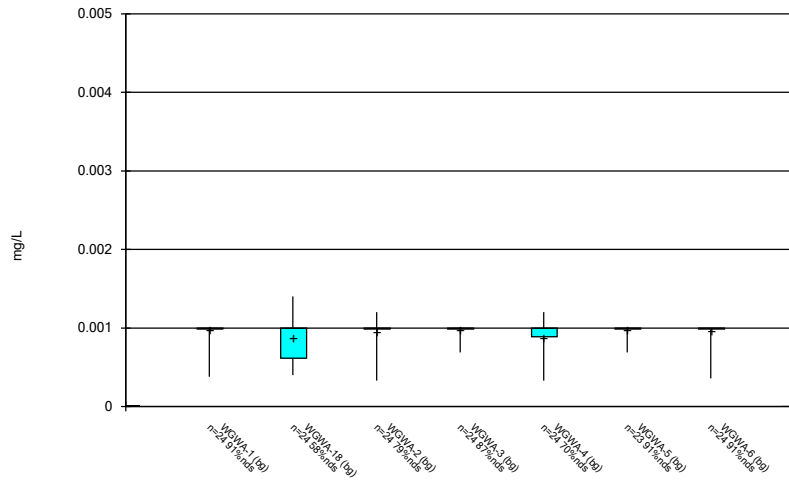
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



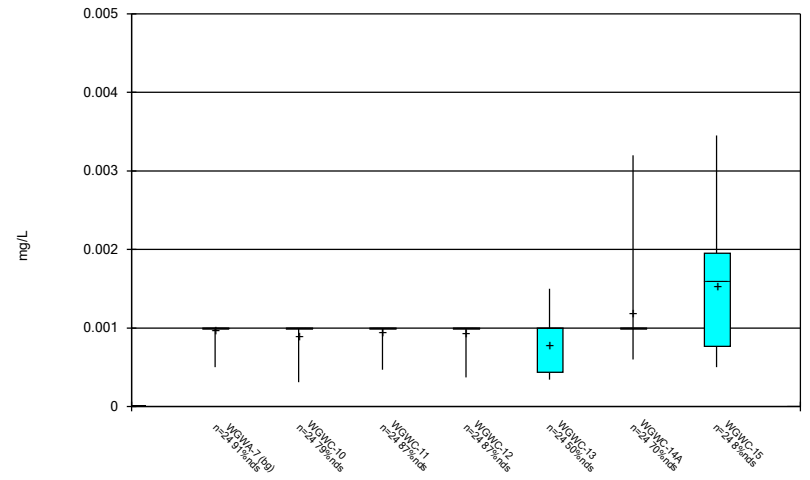
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



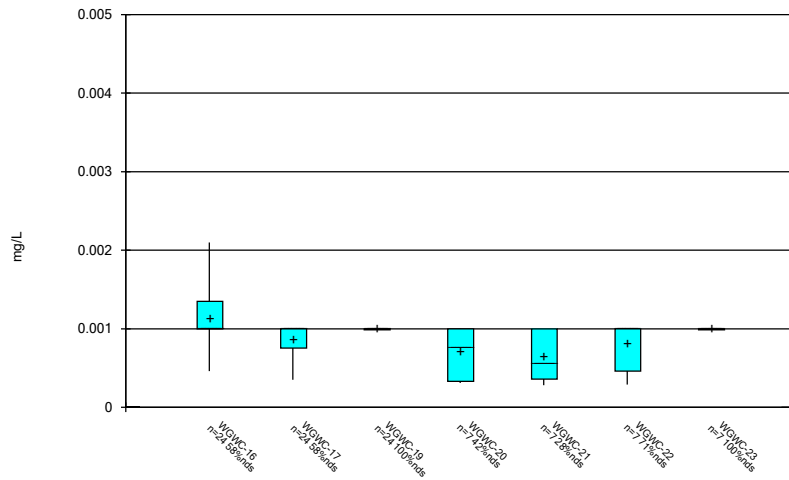
Constituent: Arsenic Analysis Run 10/10/2023 12:24 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



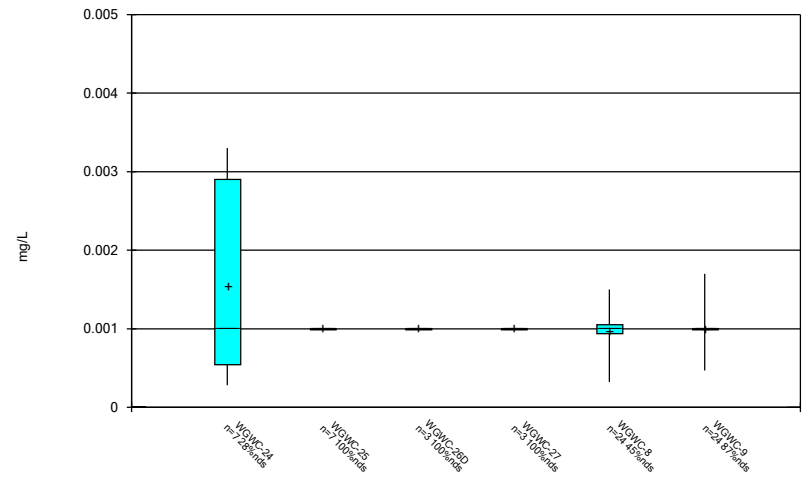
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



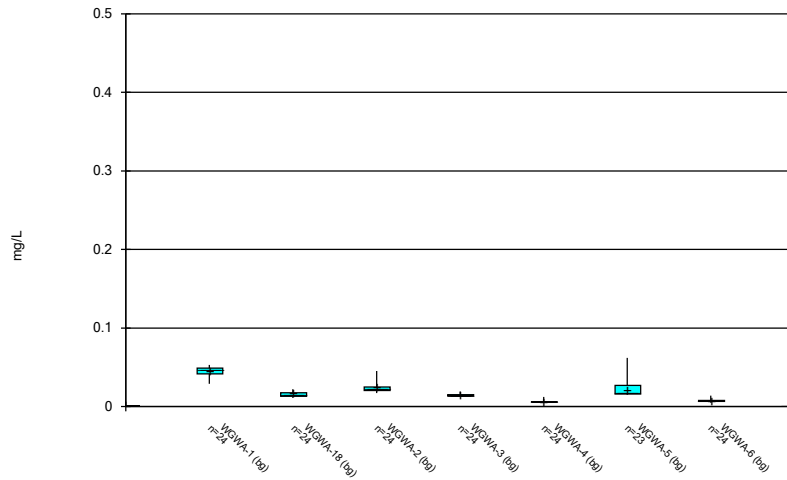
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



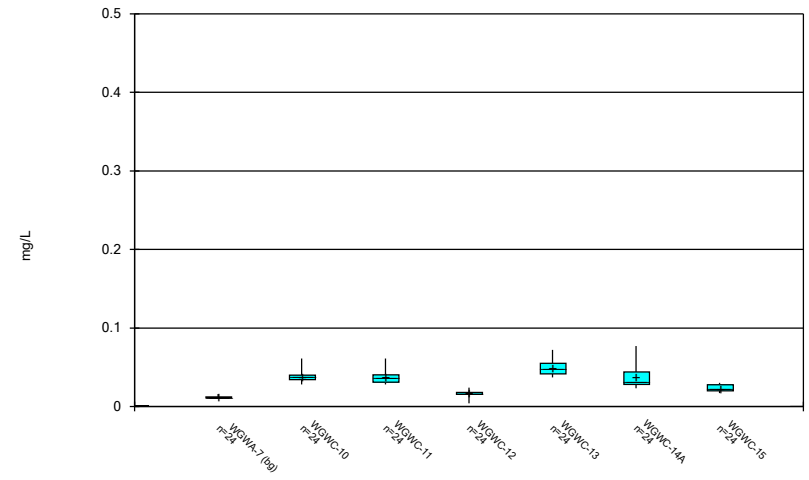
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



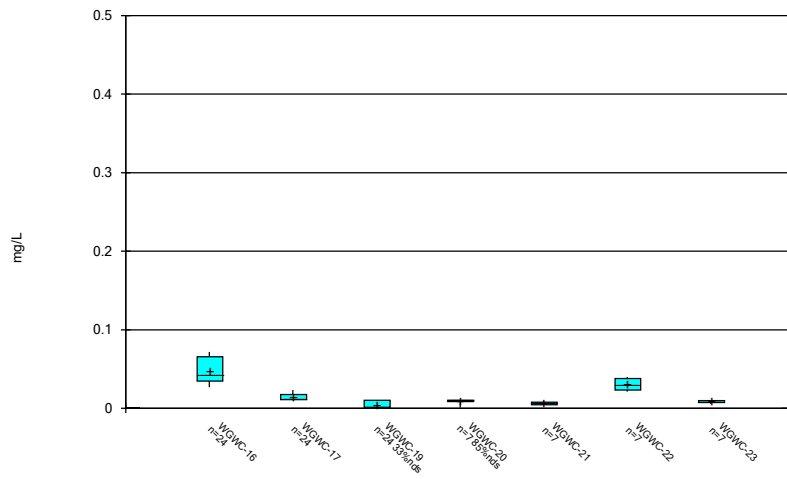
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



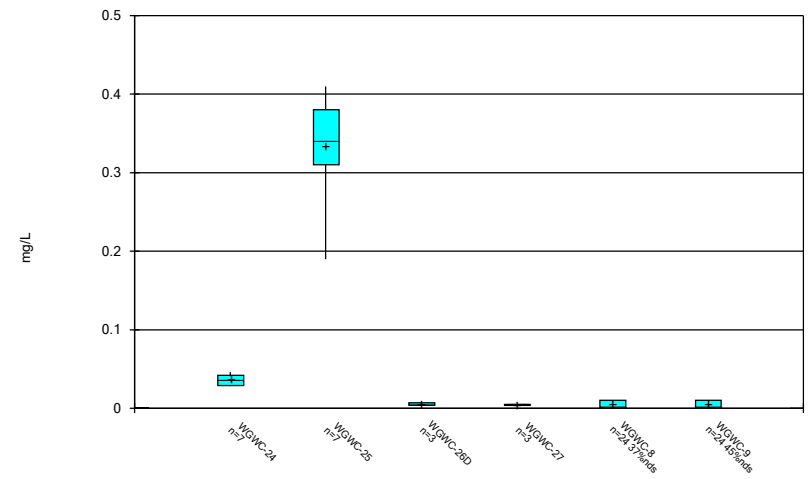
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



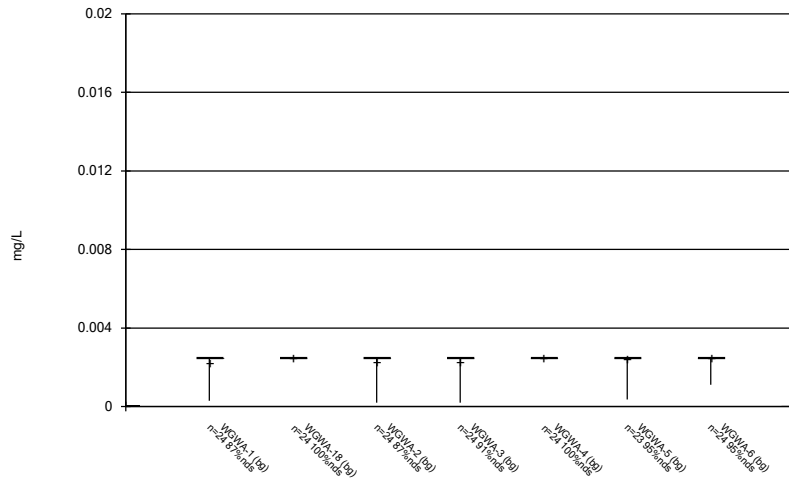
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



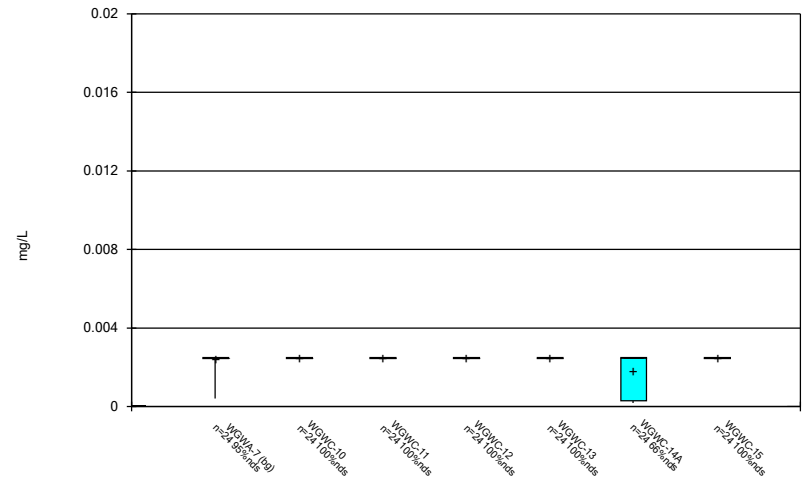
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



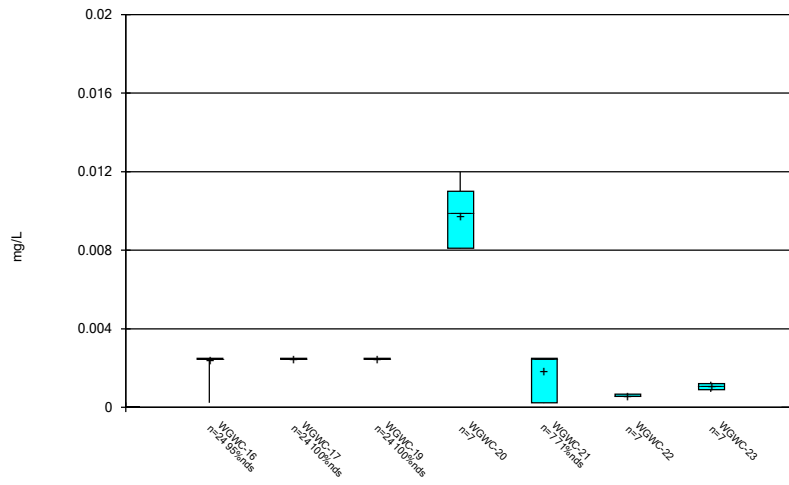
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



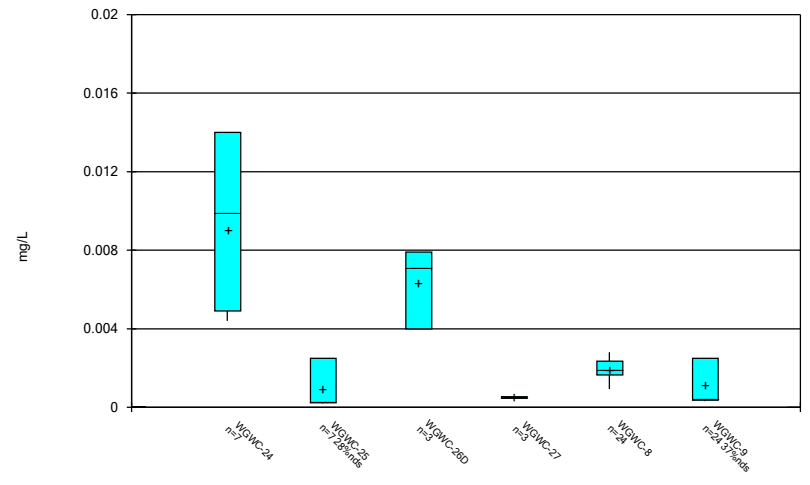
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



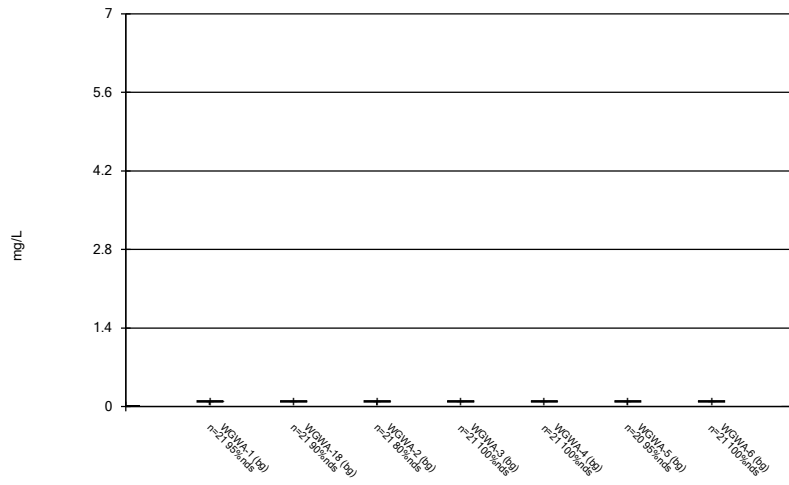
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



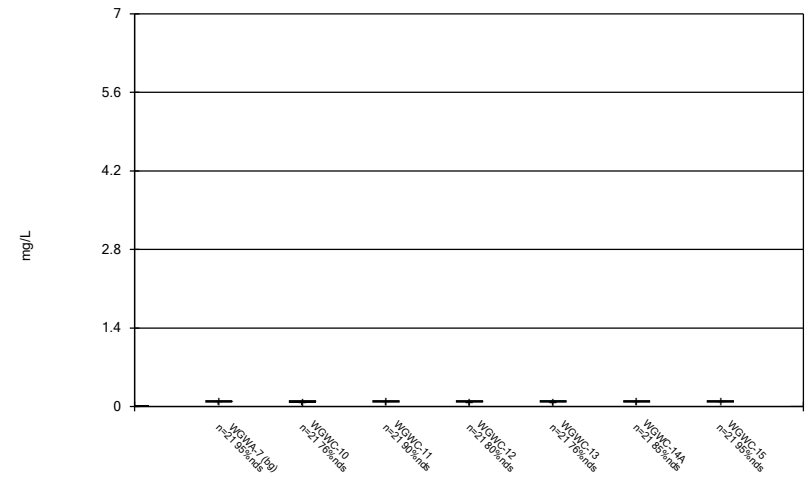
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



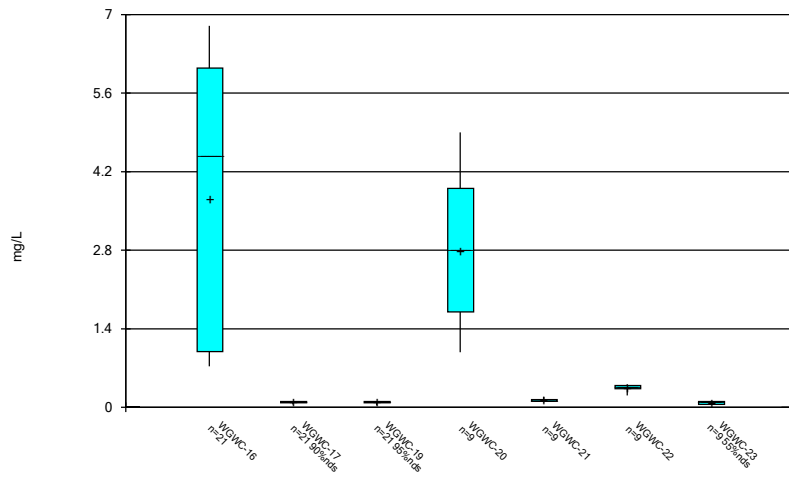
Constituent: Boron, total Analysis Run 10/10/2023 12:24 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



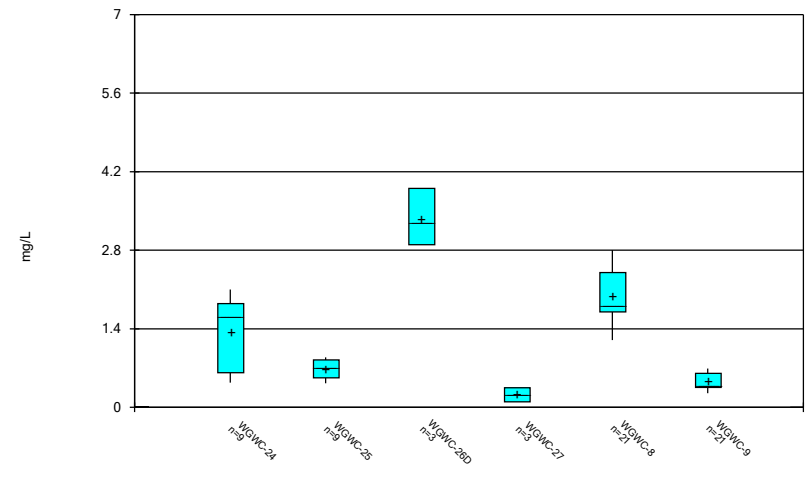
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



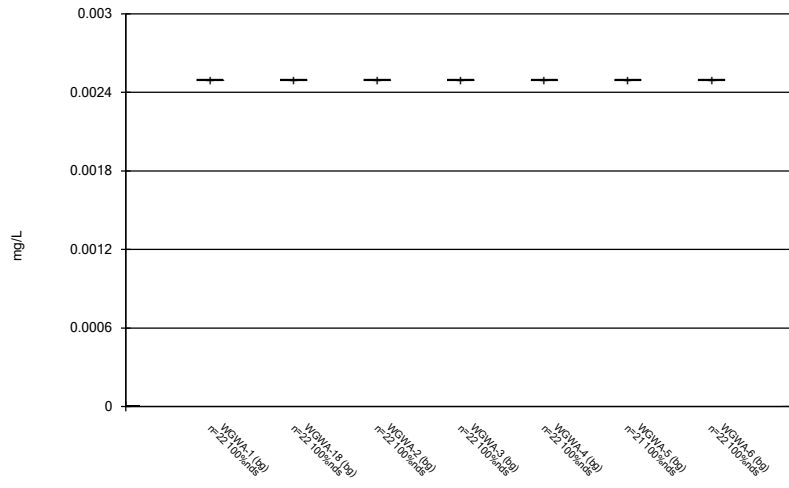
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



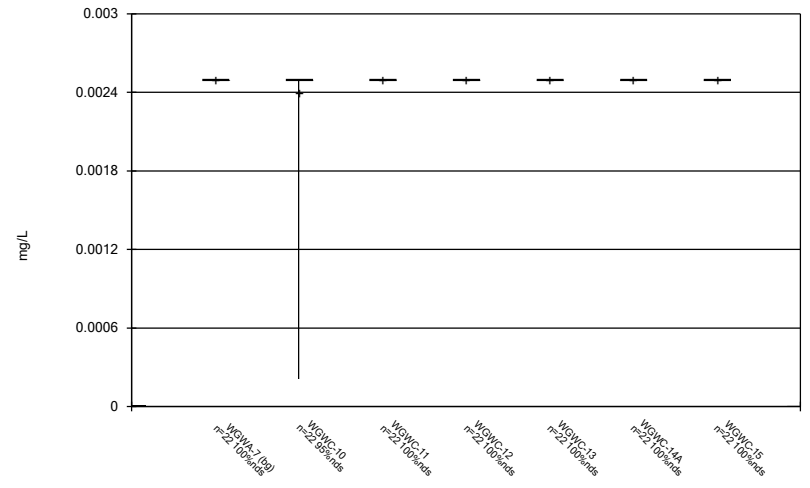
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



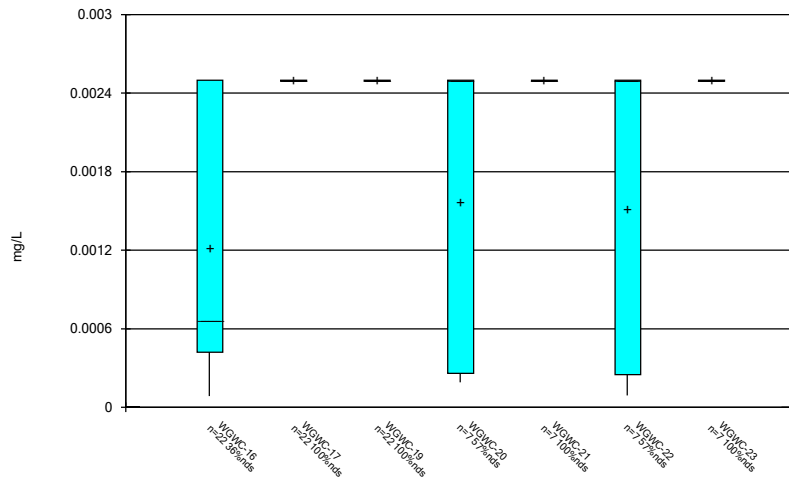
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



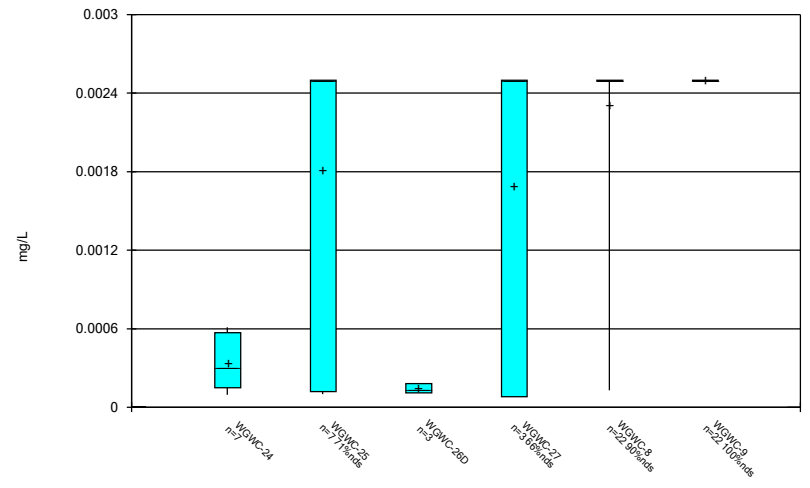
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



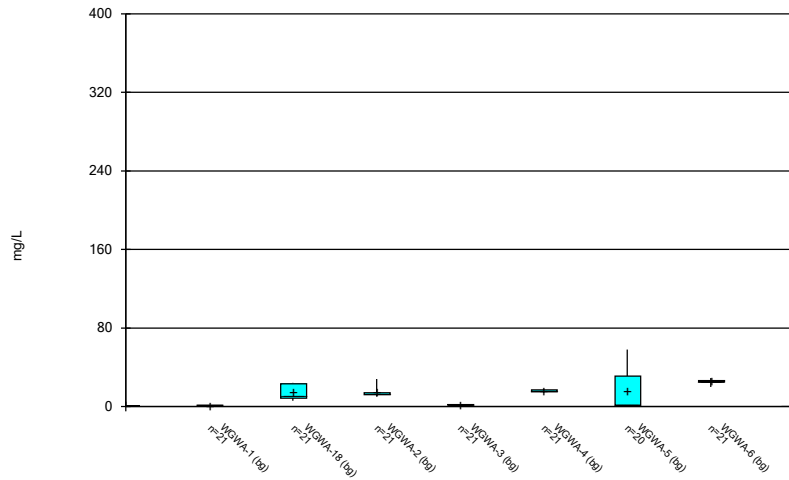
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



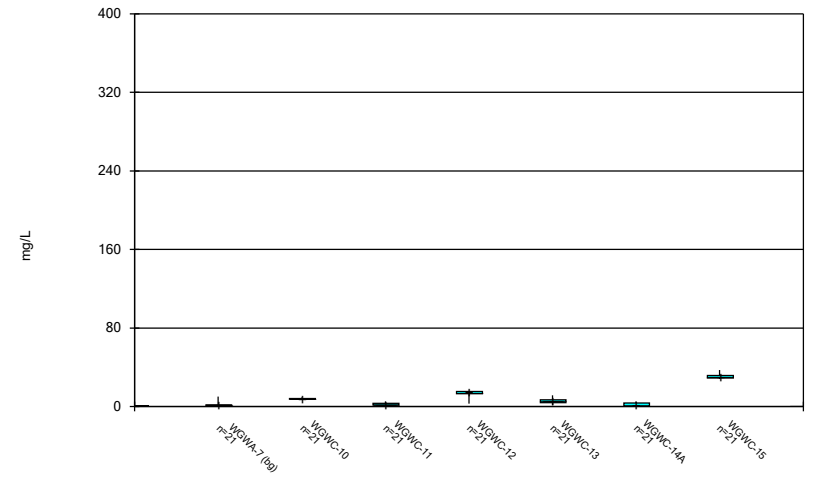
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



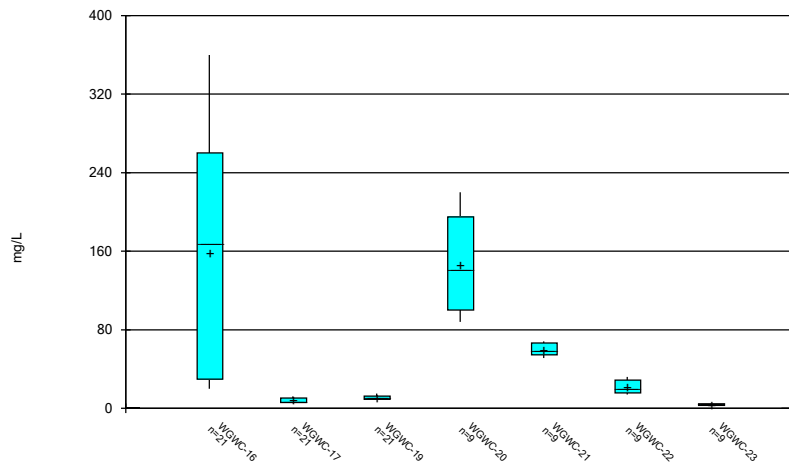
Constituent: Calcium, total Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



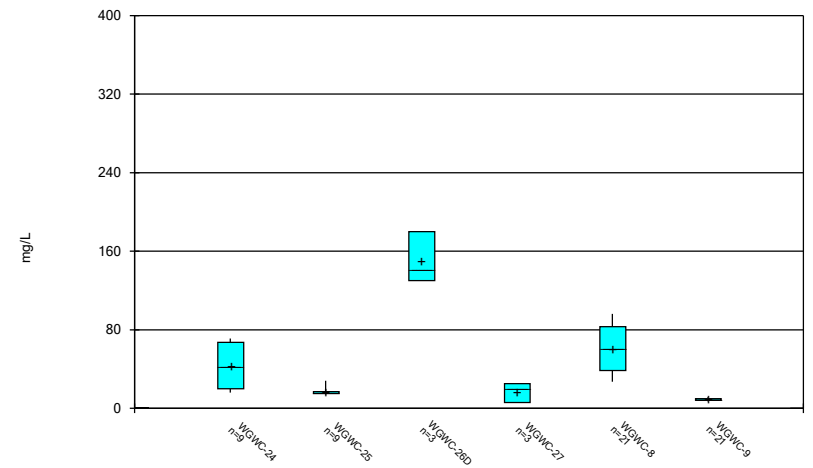
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



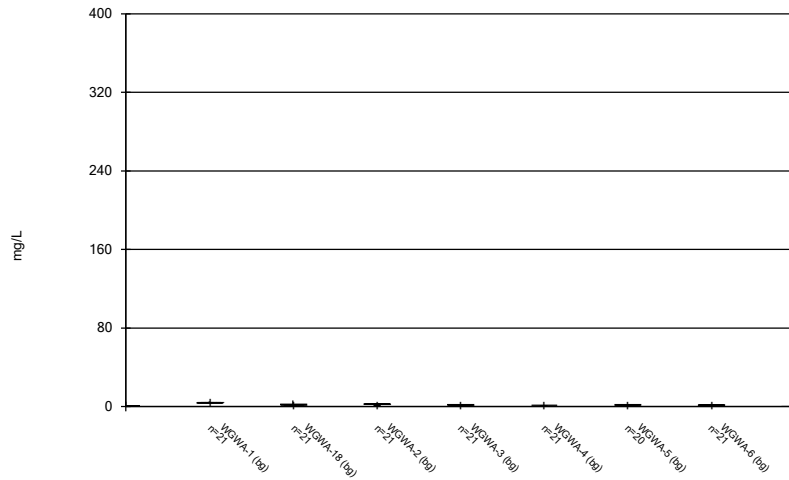
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



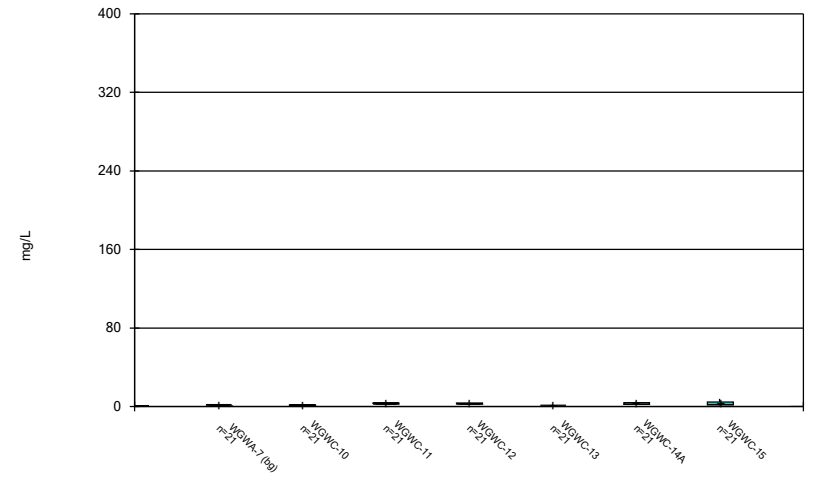
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



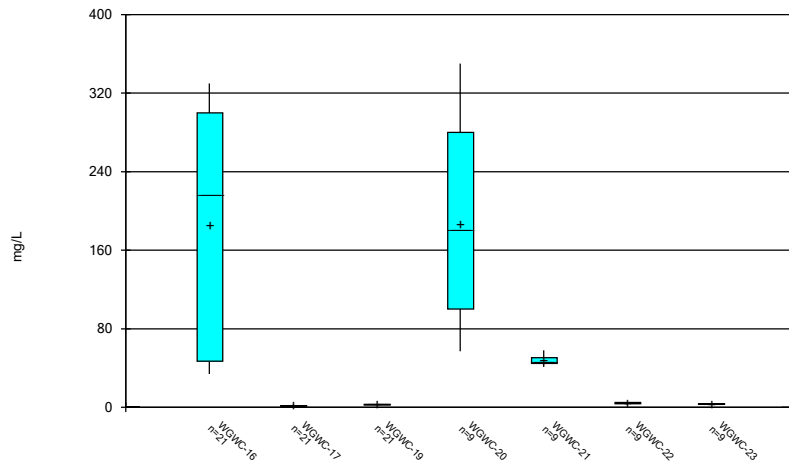
Constituent: Chloride, Total Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



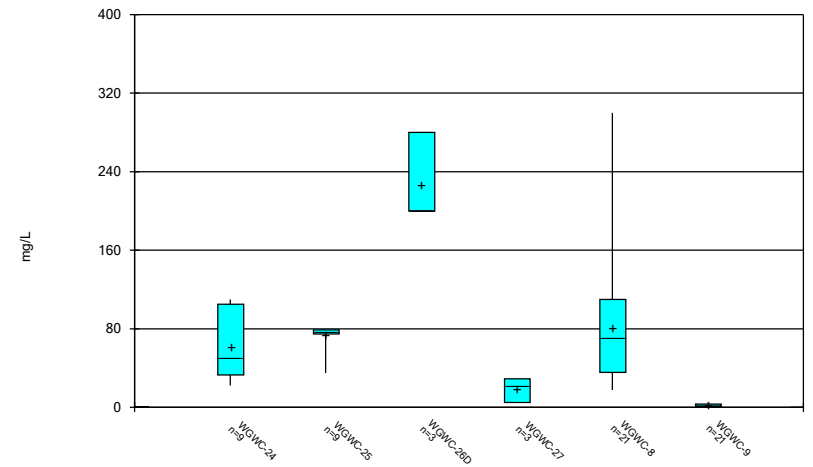
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



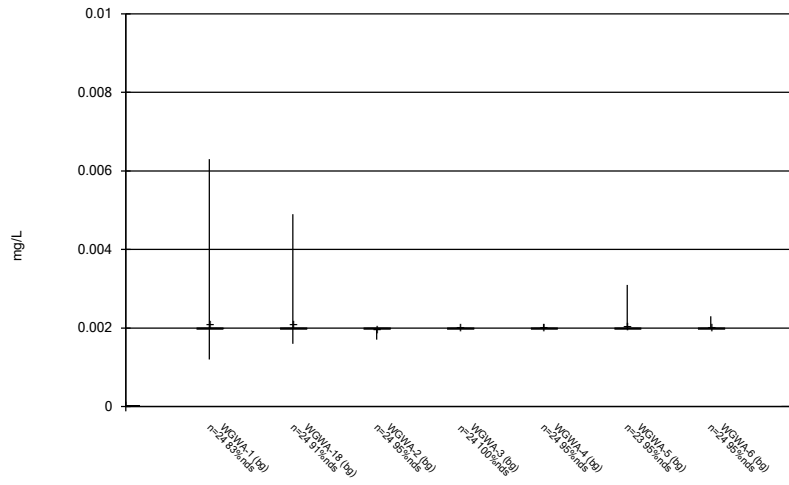
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



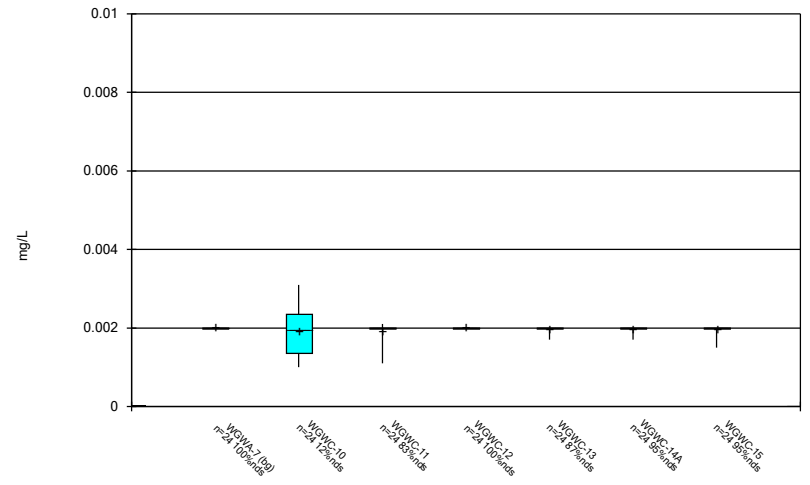
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



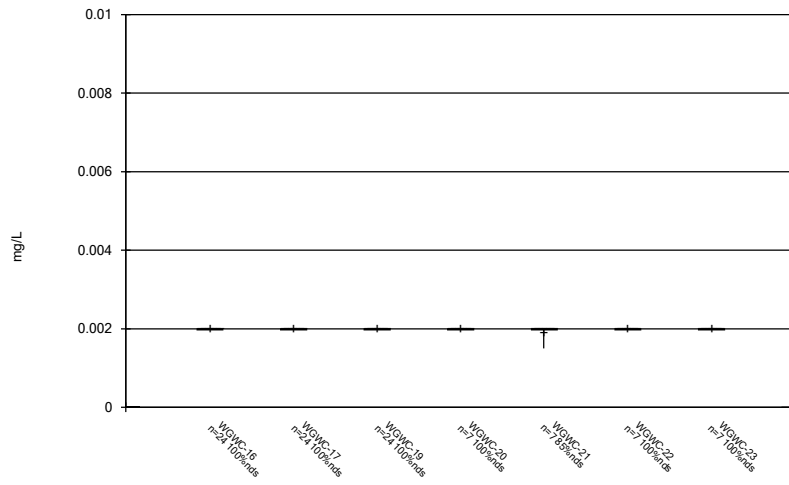
Constituent: Chromium Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



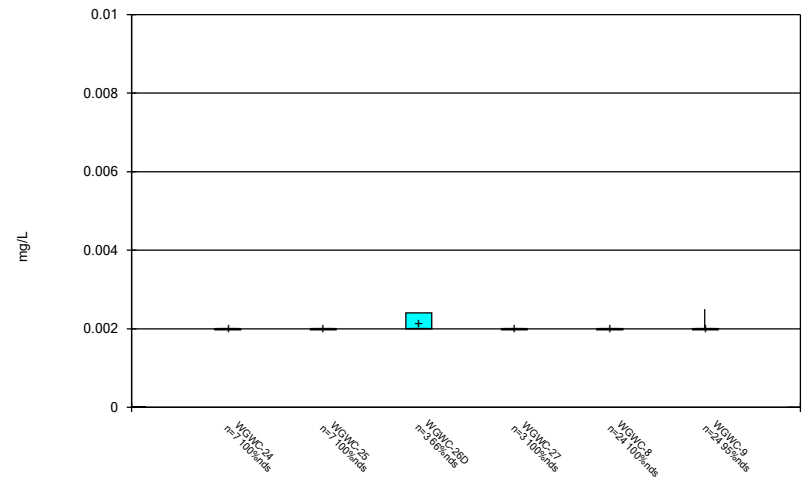
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



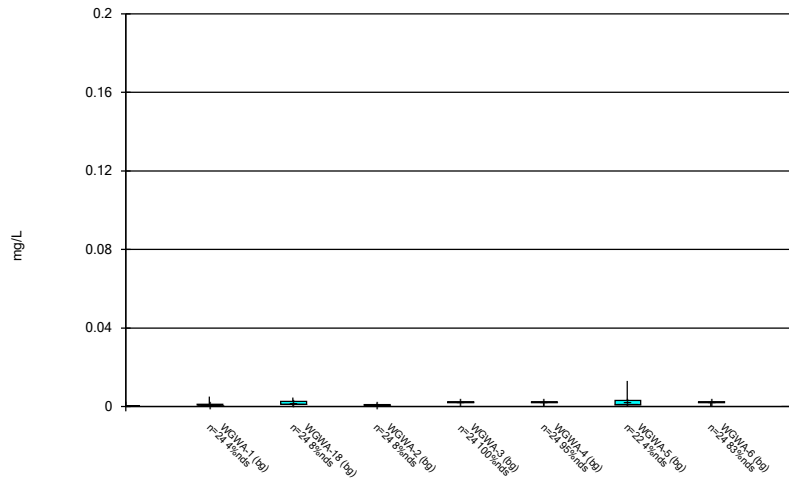
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



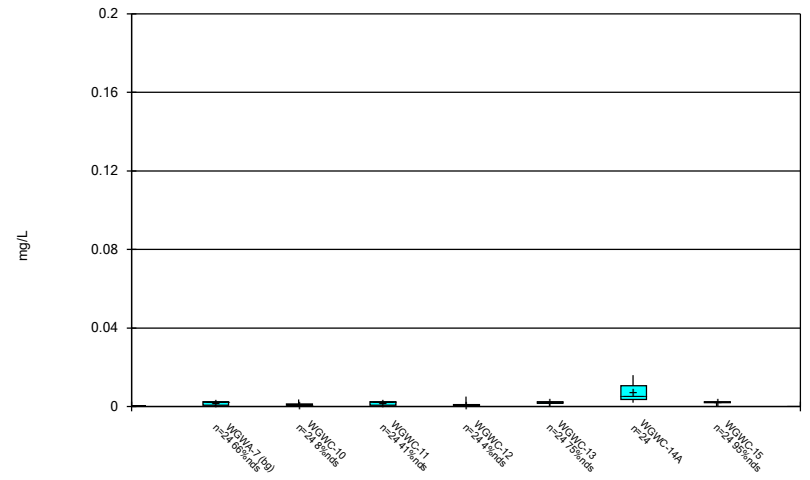
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



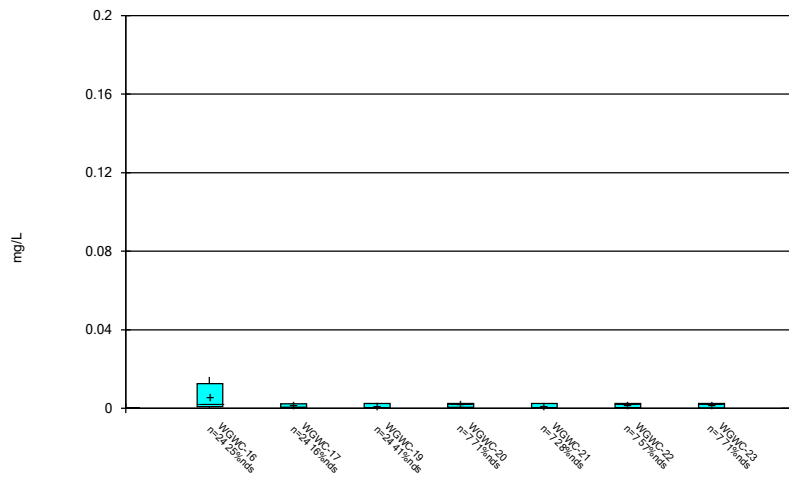
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



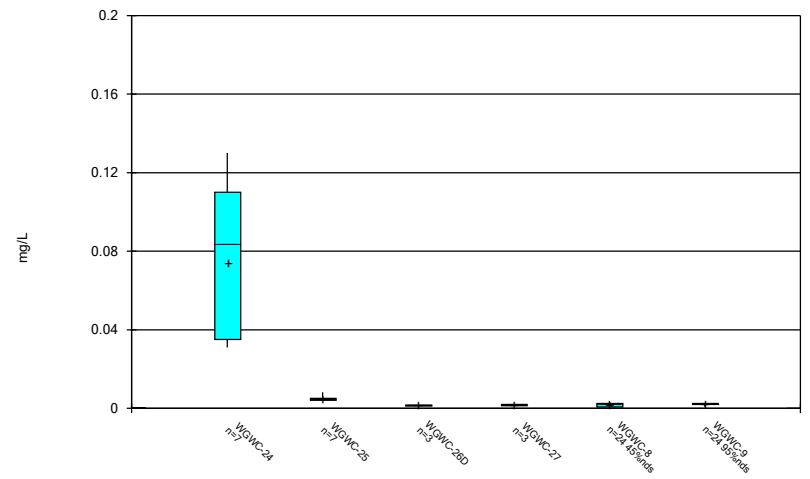
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



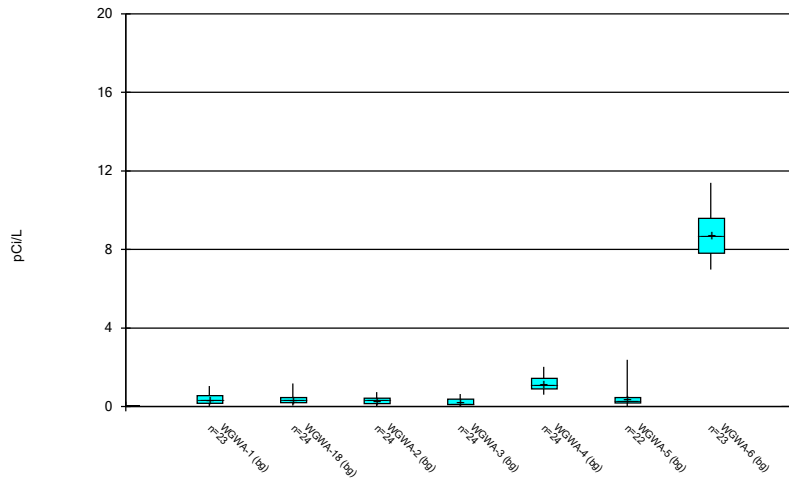
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



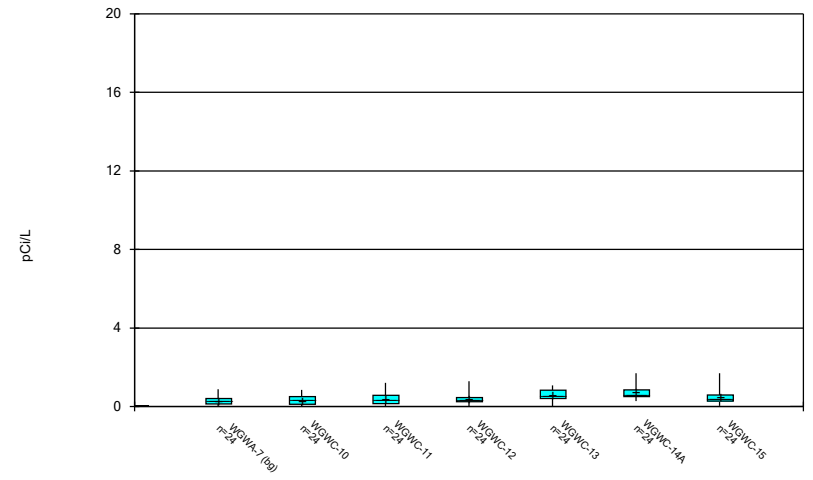
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



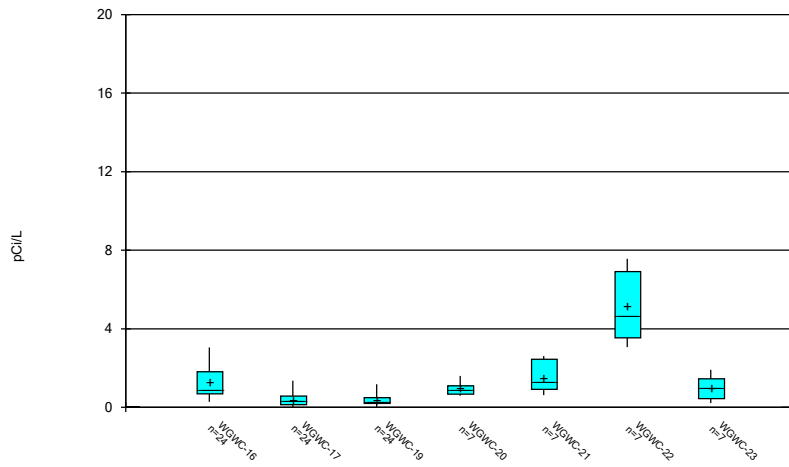
Constituent: Combined Radium 226 + 228 Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Pl
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



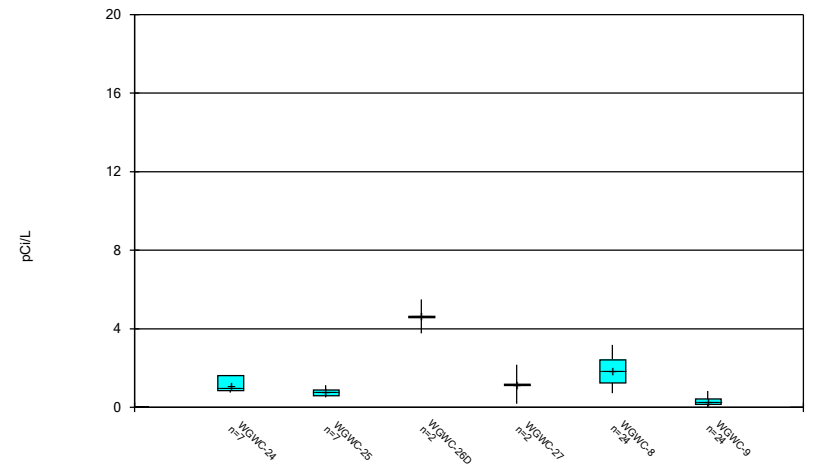
Constituent: Combined Radium 226 + 228 Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Pl
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



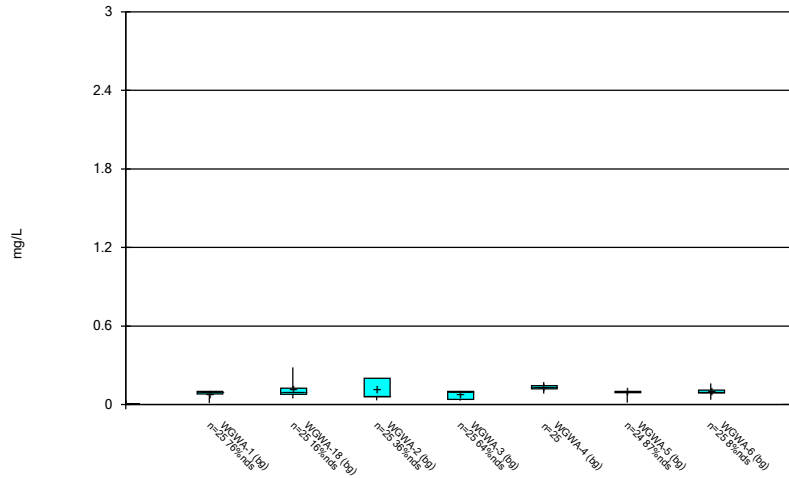
Constituent: Combined Radium 226 + 228 Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Pl
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



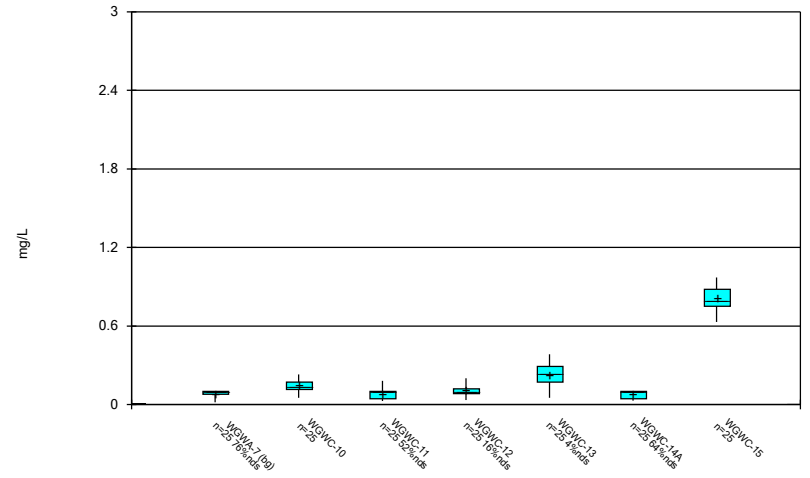
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



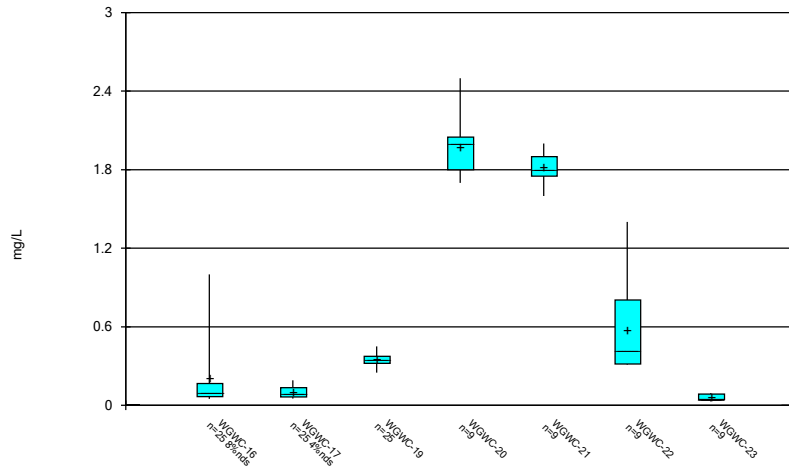
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



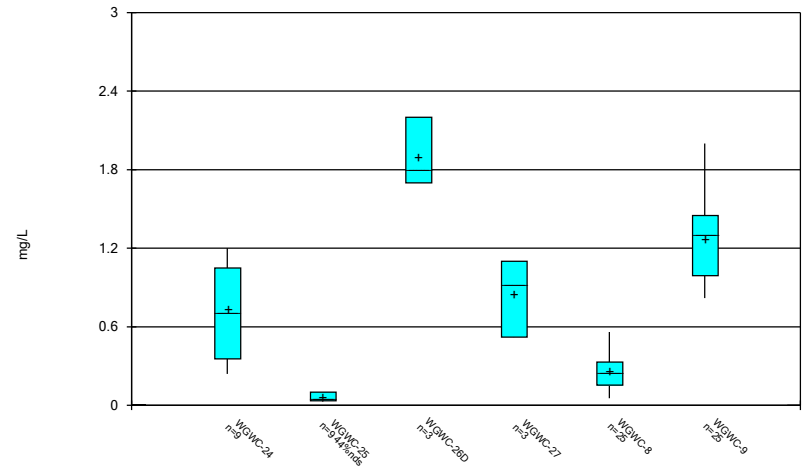
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



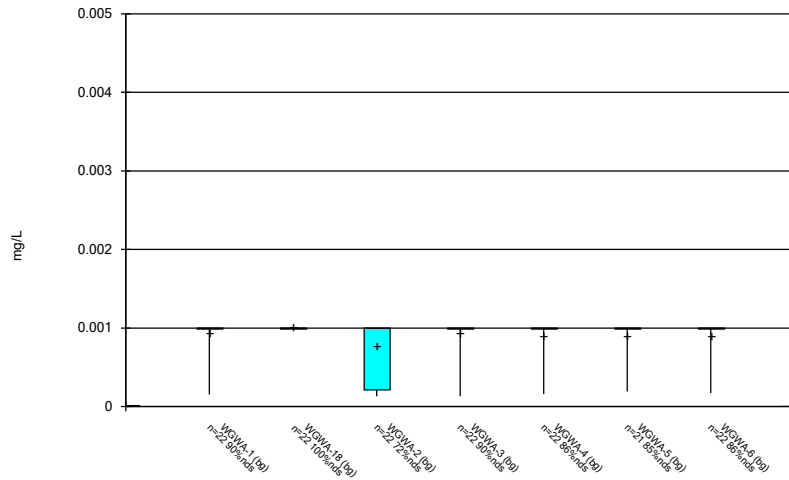
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



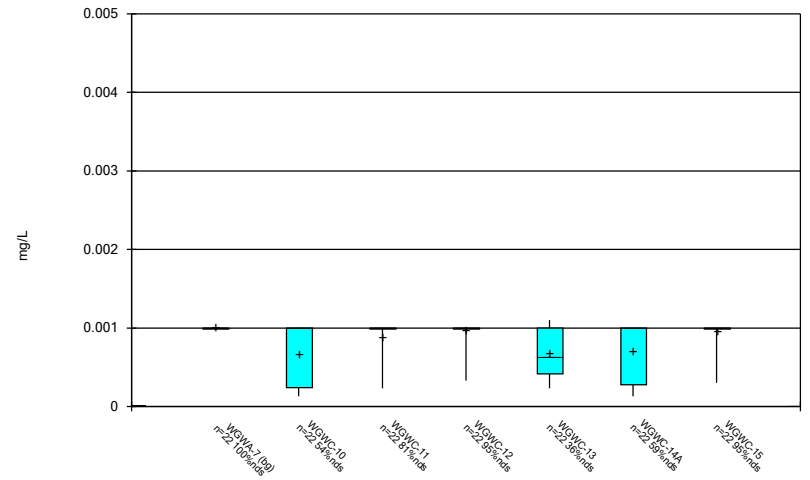
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



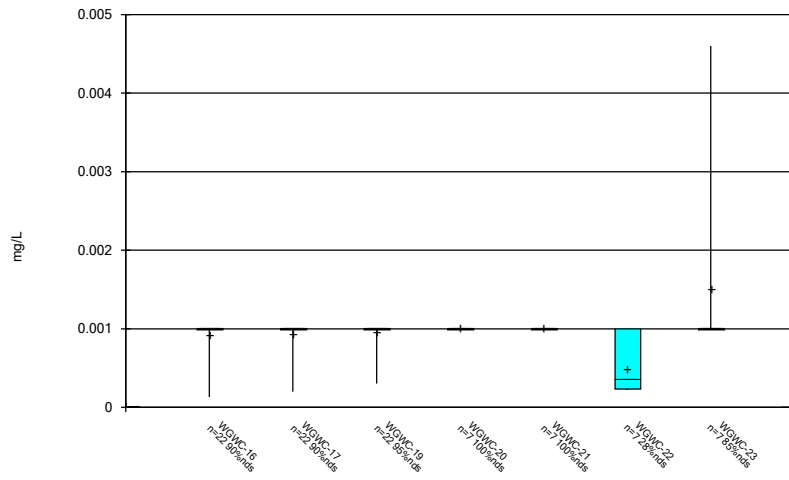
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



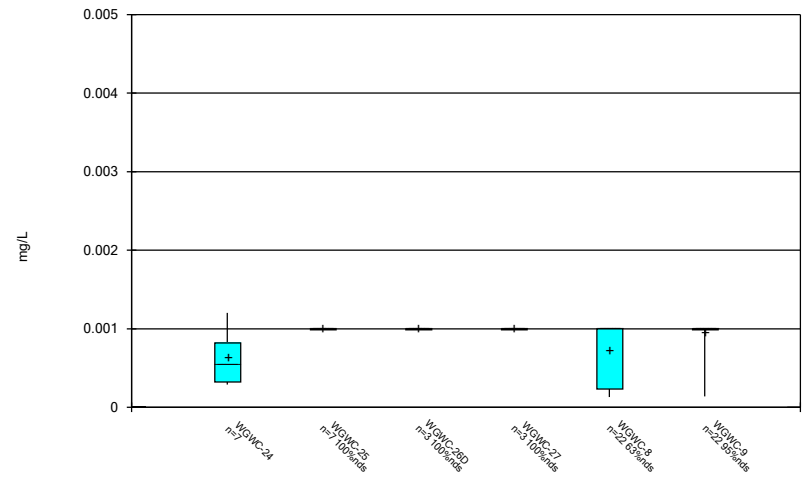
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



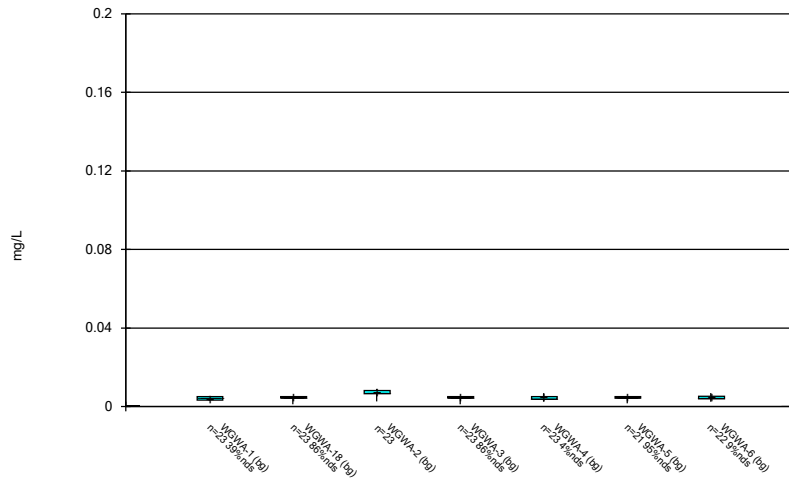
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



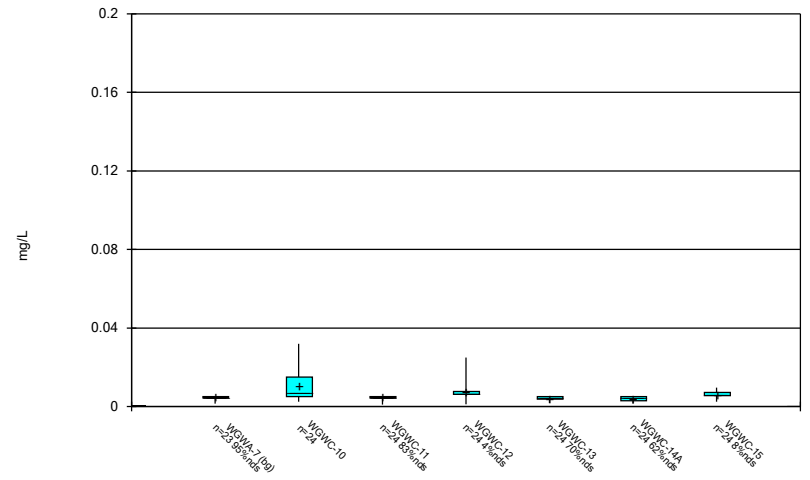
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



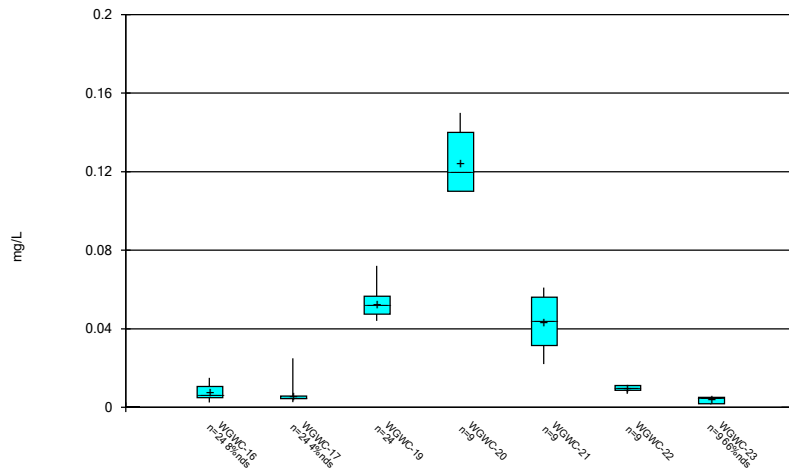
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



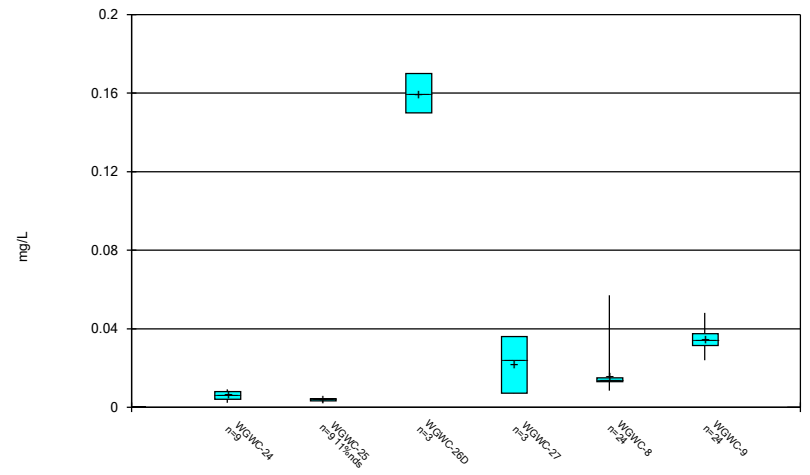
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



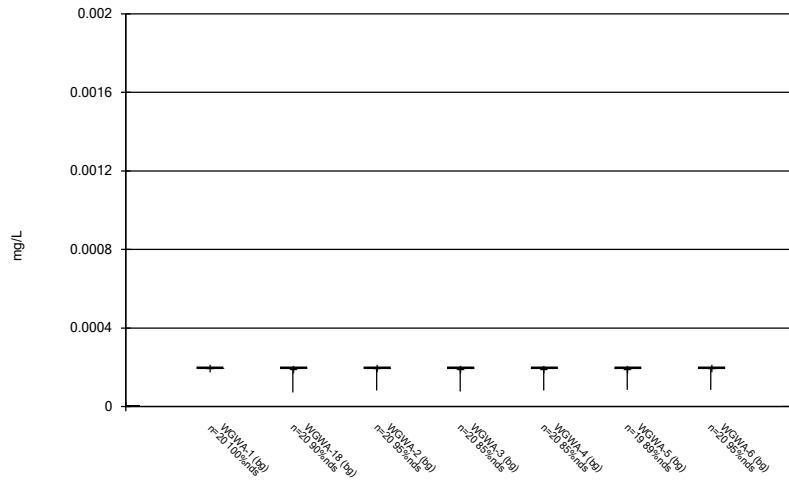
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



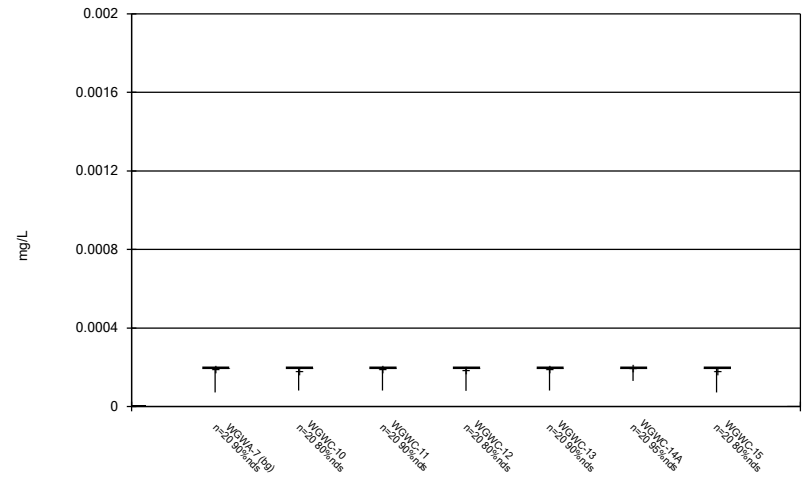
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



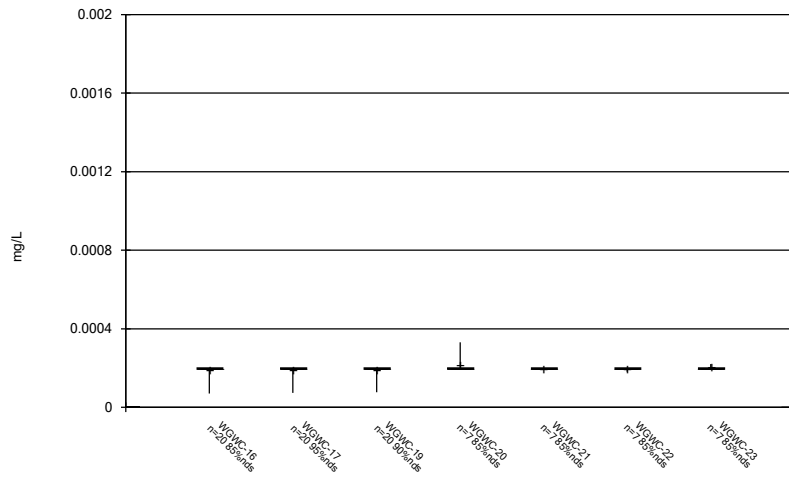
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



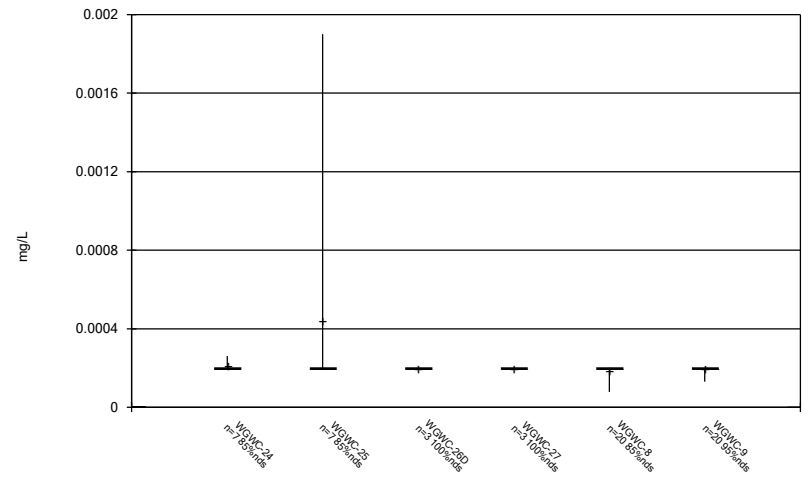
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



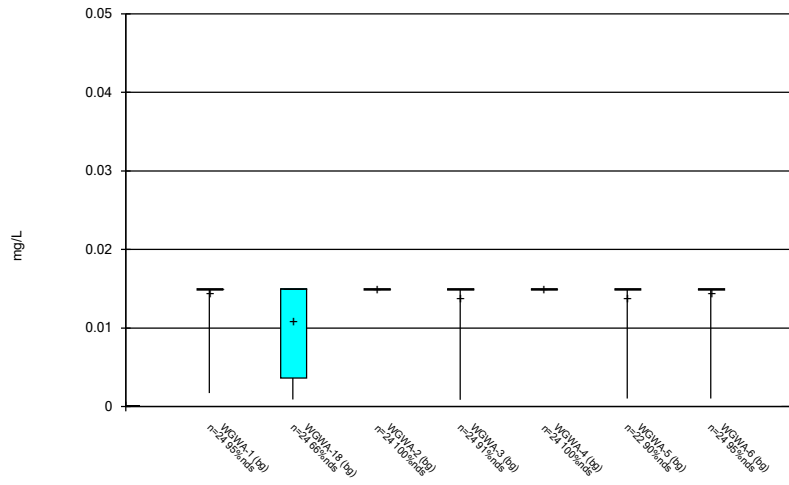
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



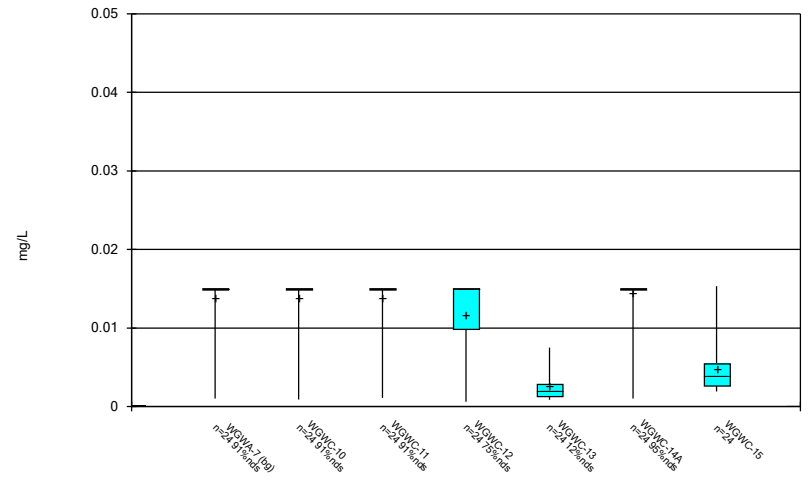
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



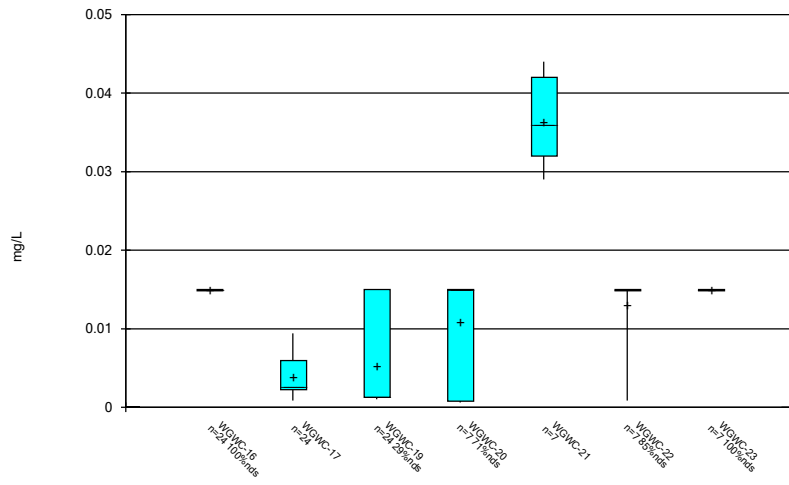
Constituent: Molybdenum Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



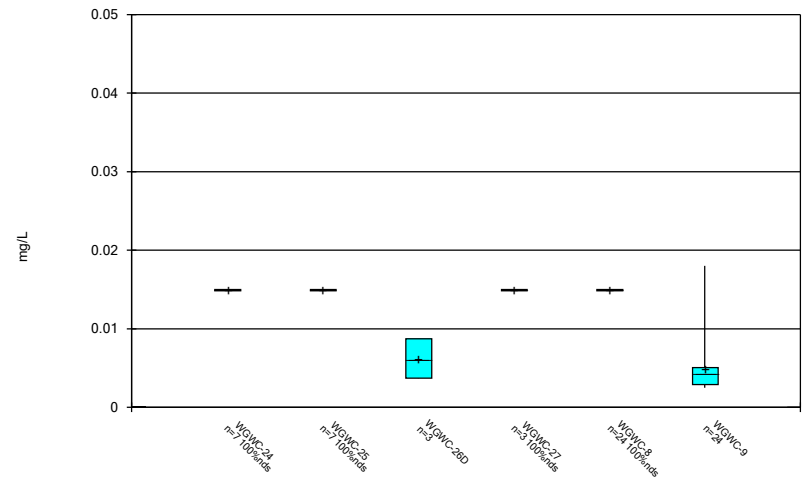
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



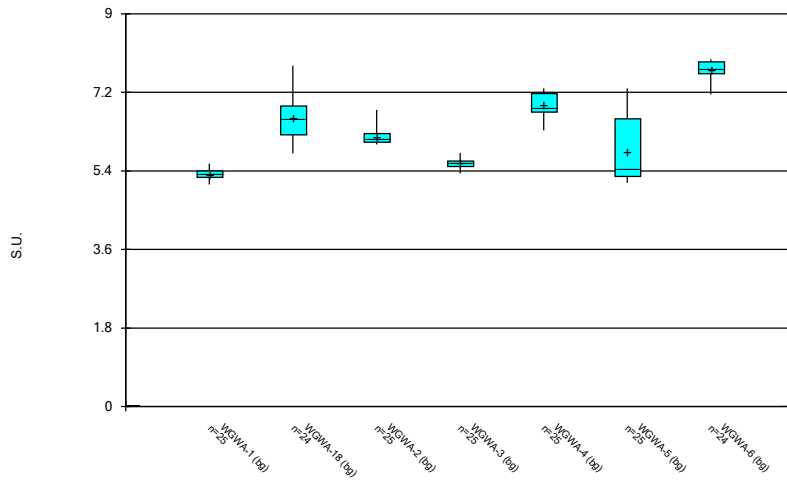
Constituent: Molybdenum Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



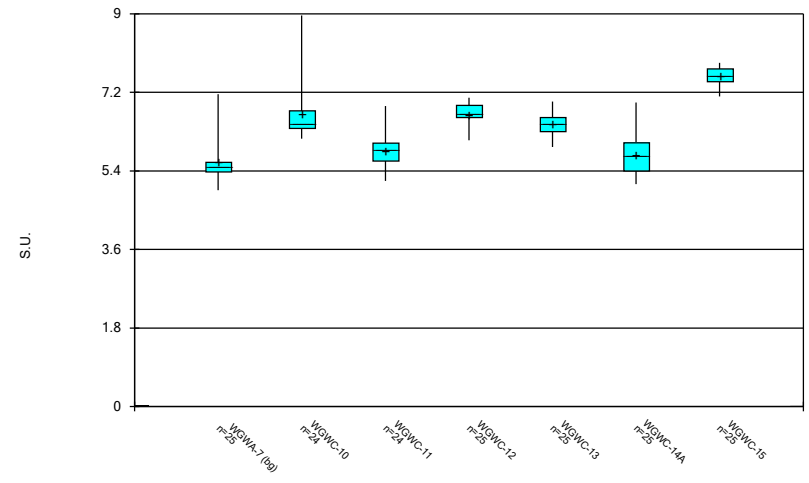
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



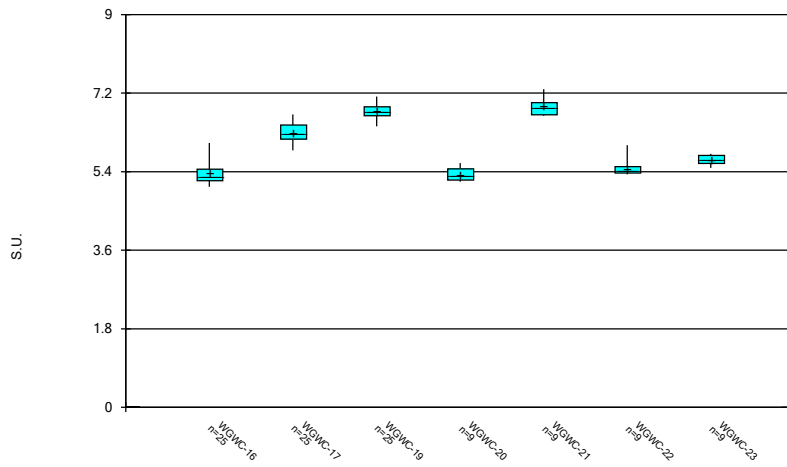
Constituent: pH, Field Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



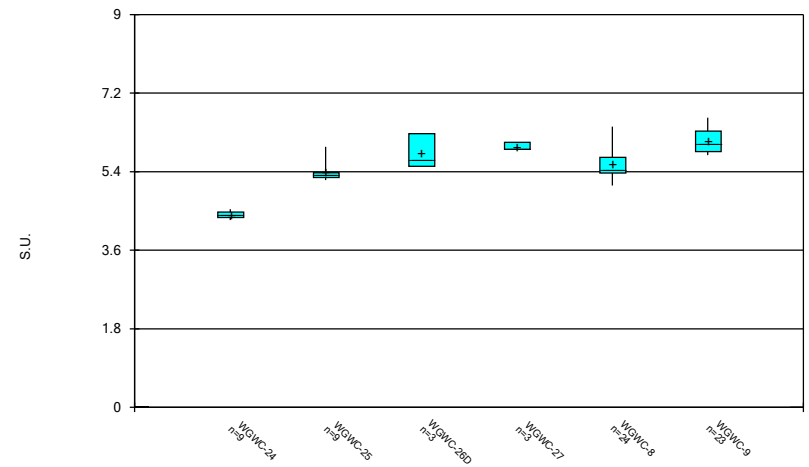
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



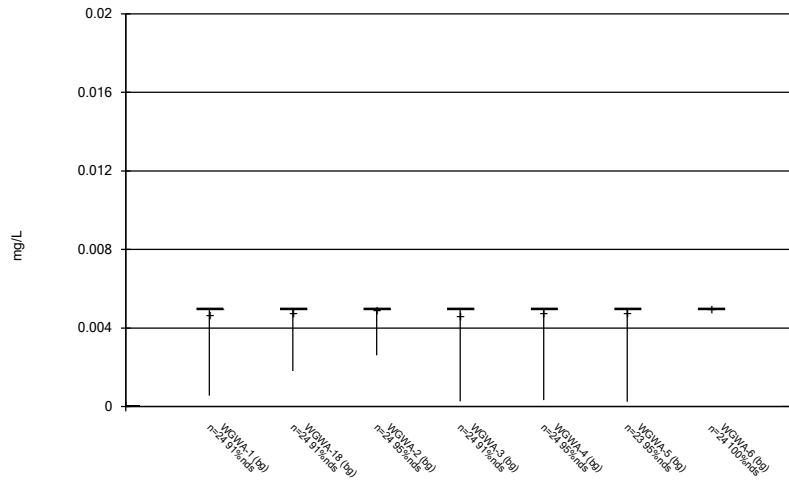
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



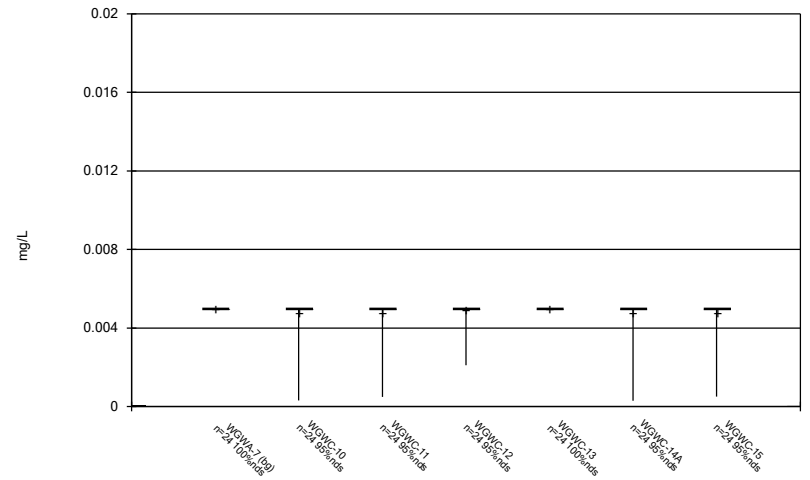
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



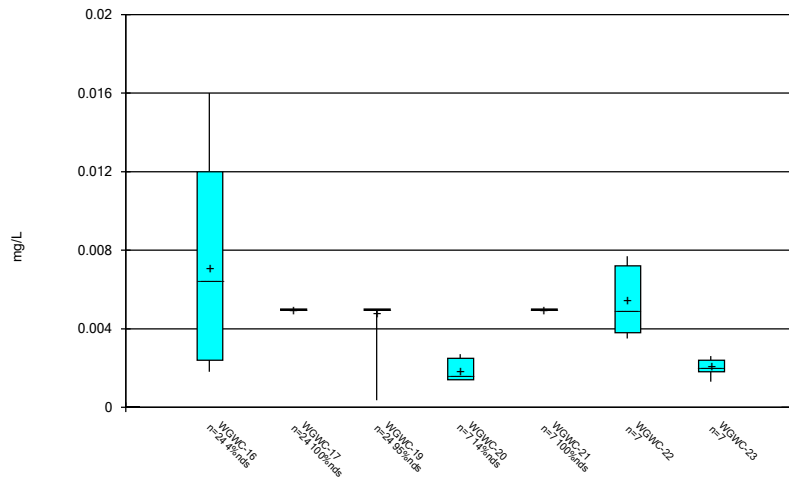
Constituent: Selenium Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Plot
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



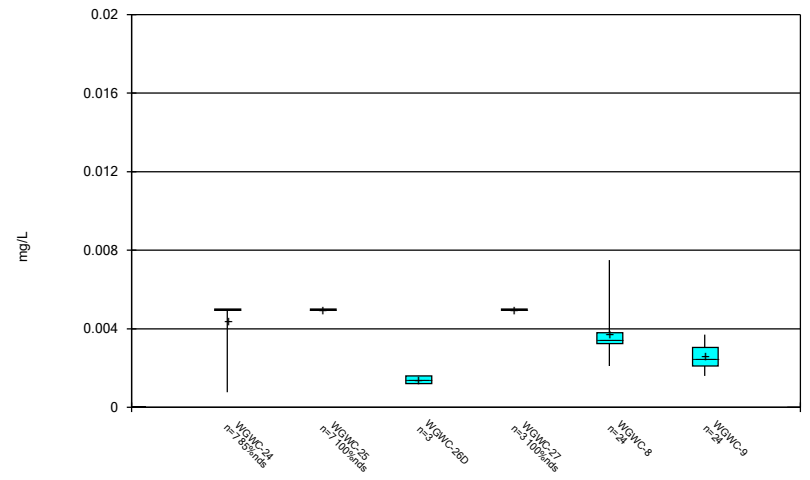
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



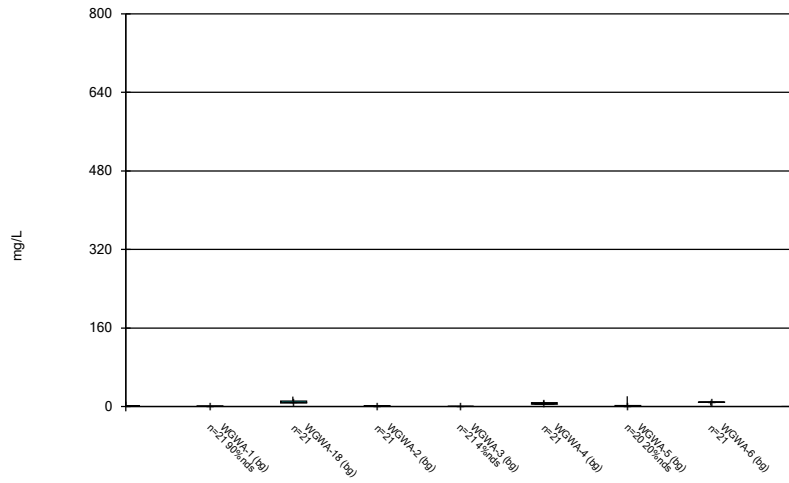
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



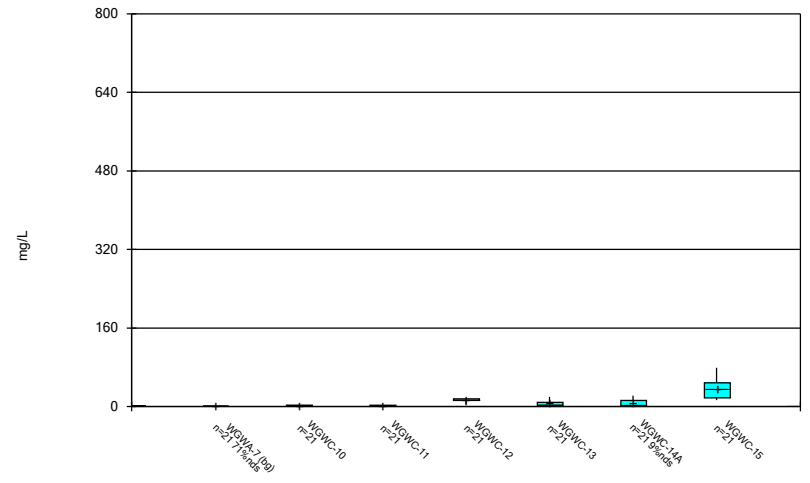
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



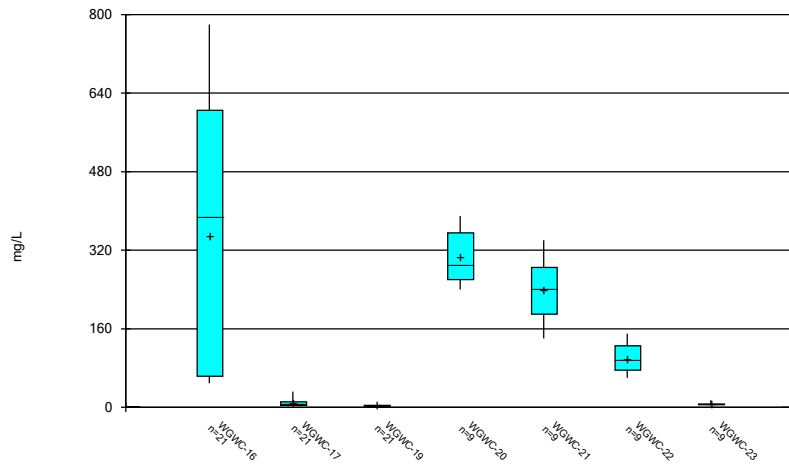
Constituent: Sulfate as SO4 Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



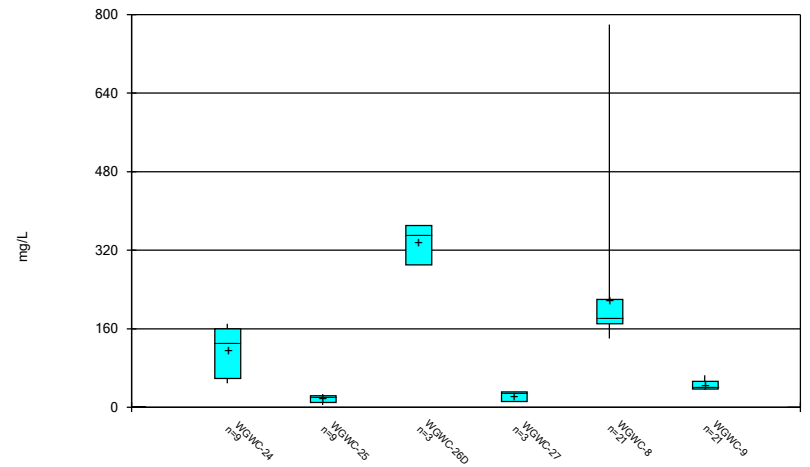
Constituent: Sulfate as SO4 Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



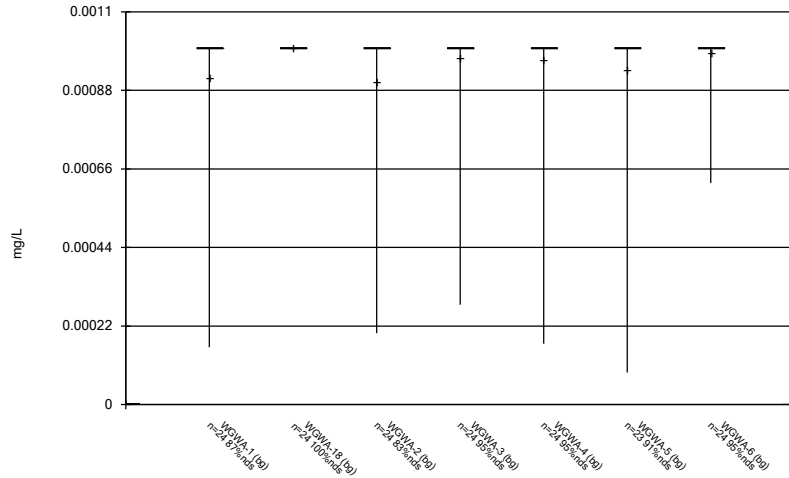
Constituent: Sulfate as SO4 Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



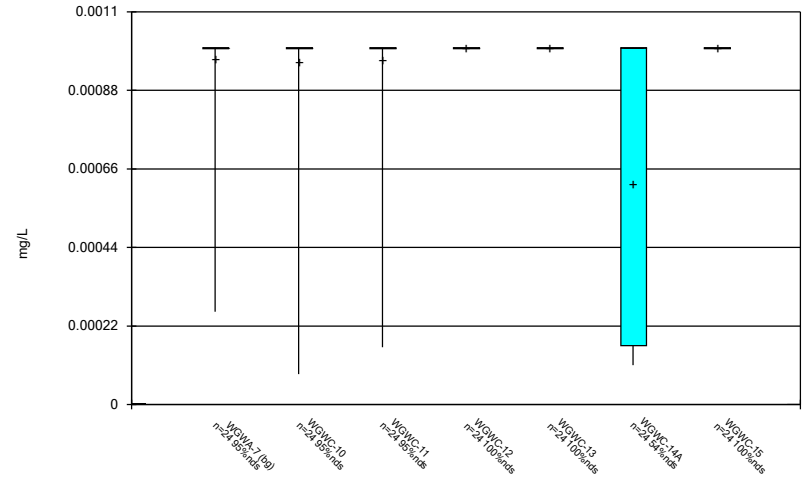
Constituent: Sulfate as SO4 Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



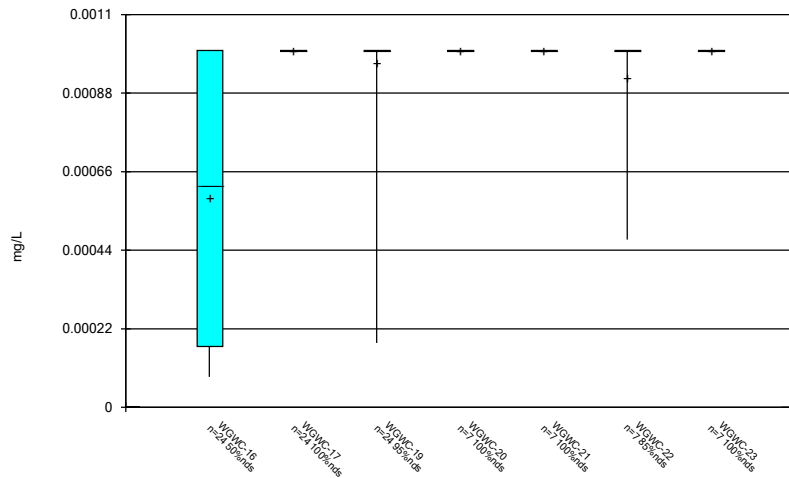
Constituent: Thallium Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



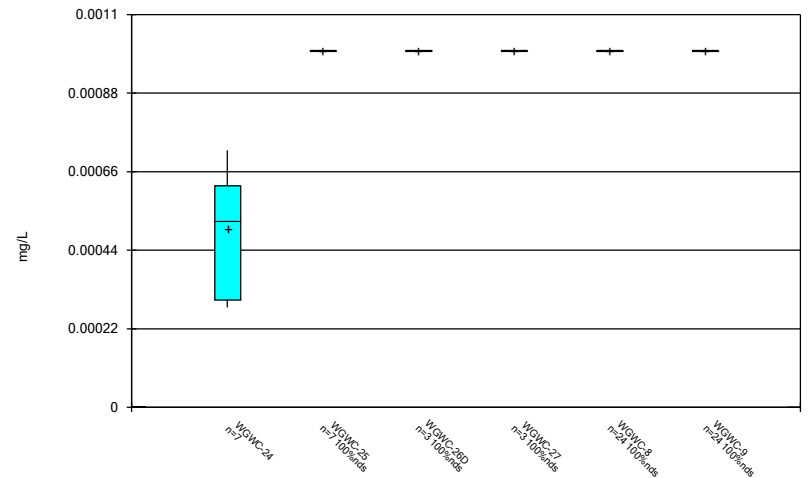
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



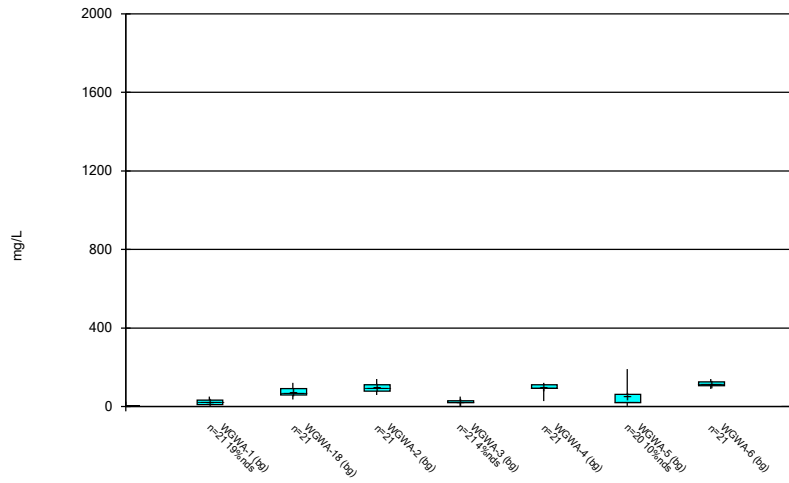
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



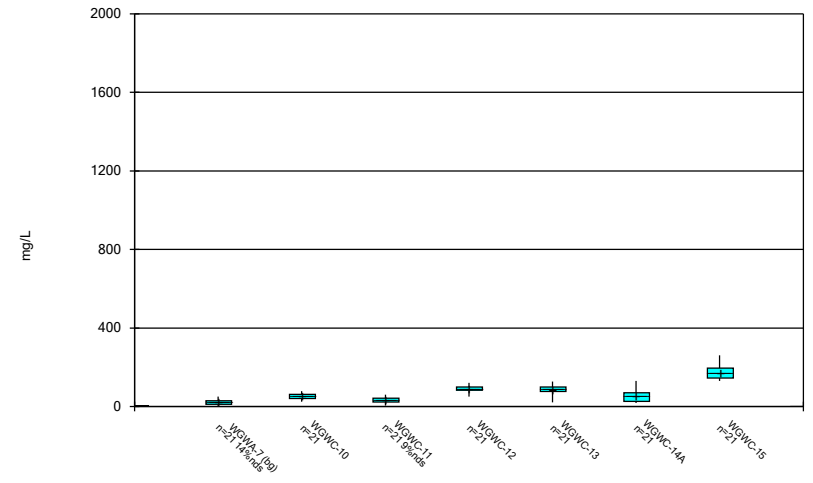
Constituent: Thallium Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Plot
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



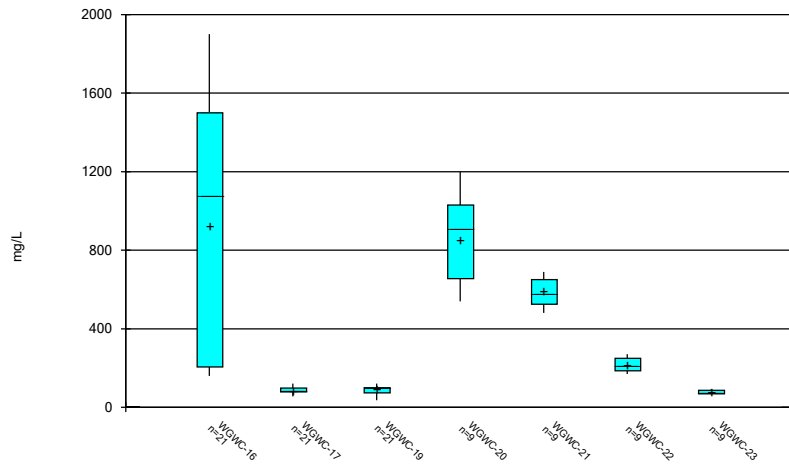
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Pl
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



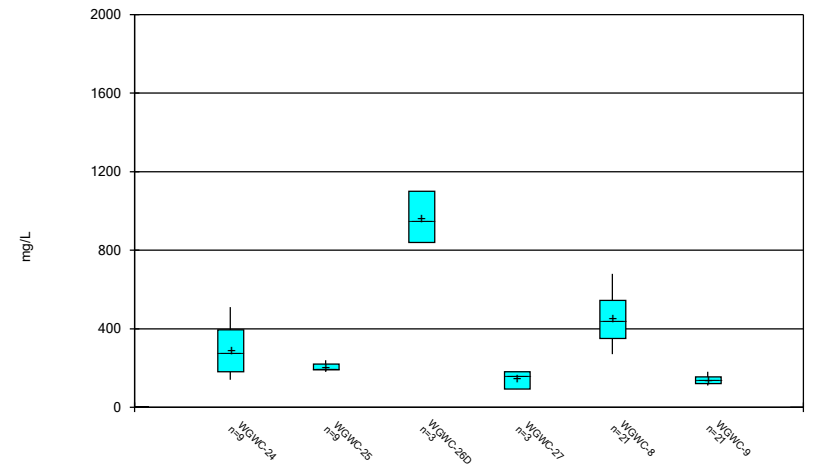
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Pl
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Pl
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/10/2023 12:25 PM View: Time Series & Box Pl
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE C.

Outlier Summary

Plant Wansley Data: Wansley Ash Pond Printed 10/12/2023, 2:56 PM

	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)	

	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 Limit - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/10/2023, 12:29 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Obsrv.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-16	0.1	n/a	8/18/2023	0.81	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-20	0.1	n/a	8/15/2023	3.1	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-21	0.1	n/a	8/21/2023	0.12	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-22	0.1	n/a	8/21/2023	0.33	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-24	0.1	n/a	8/21/2023	0.59	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-25	0.1	n/a	8/18/2023	0.57	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	8/18/2023	2.8	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	8/21/2023	0.6	Yes	167	n/a	n/a	94.61	n/a	n/a	n/a	0.00007069	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-20	58	n/a	8/15/2023	150	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-21	58	n/a	8/21/2023	63	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	8/18/2023	96	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	8/22/2023	34	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-20	6.05	n/a	8/17/2023	190	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-21	6.05	n/a	8/23/2023	47	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-24	6.05	n/a	8/23/2023	22	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-25	6.05	n/a	8/22/2023	35	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	8/22/2023	110	Yes	167	n/a	n/a	0	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	8/23/2023	0.73	Yes	199	n/a	n/a	45.23	n/a	n/a	n/a	0.00004964	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	8/23/2023	0.34	Yes	199	n/a	n/a	45.23	n/a	n/a	n/a	0.00004964	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-20	0.284	n/a	8/17/2023	2.1	Yes	199	n/a	n/a	45.23	n/a	n/a	n/a	0.00004964	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-21	0.284	n/a	8/23/2023	1.8	Yes	199	n/a	n/a	45.23	n/a	n/a	n/a	0.00004964	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-22	0.284	n/a	8/23/2023	0.32	Yes	199	n/a	n/a	45.23	n/a	n/a	n/a	0.00004964	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	8/22/2023	0.9	Yes	199	n/a	n/a	45.23	n/a	n/a	n/a	0.00004964	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-24	7.96	4.96	8/17/2023	4.37	Yes	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	8/22/2023	52	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-20	21	n/a	8/17/2023	330	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-21	21	n/a	8/23/2023	310	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-22	21	n/a	8/23/2023	71	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-24	21	n/a	8/23/2023	50	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	8/22/2023	240	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	8/22/2023	50	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	190	n/a	8/16/2023	910	Yes	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	190	n/a	8/22/2023	690	Yes	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	8/19/2023	680	Yes	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limit - All Results

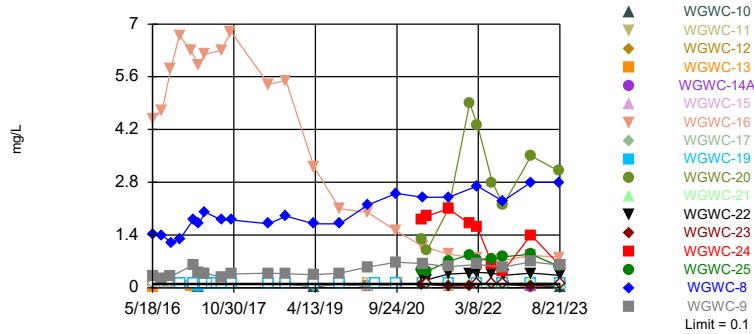
Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/10/2023, 12:29 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (S.U.)	WGWC-10	7.96	4.96	8/17/2023	6.49	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-11	7.96	4.96	8/16/2023	5.17	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-12	7.96	4.96	8/16/2023	6.1	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-13	7.96	4.96	8/16/2023	6.22	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-14A	7.96	4.96	8/16/2023	5.17	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-15	7.96	4.96	8/16/2023	7.41	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-16	7.96	4.96	8/15/2023	5.07	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-17	7.96	4.96	8/16/2023	6.13	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-19	7.96	4.96	8/16/2023	6.44	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-20	7.96	4.96	8/11/2023	5.31	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-21	7.96	4.96	8/17/2023	6.91	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-22	7.96	4.96	8/17/2023	5.41	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-23	7.96	4.96	8/17/2023	5.66	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-24	7.96	4.96	8/17/2023	4.37	Yes	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-25	7.96	4.96	8/15/2023	5.97	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-8	7.96	4.96	8/15/2023	5.43	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-9	7.96	4.96	8/16/2023	5.78	No	198	n/a	n/a	0	n/a	n/a	n/a	0.0001004	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-10	21	n/a	8/23/2023	1.7	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-11	21	n/a	8/23/2023	1	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-12	21	n/a	8/23/2023	12	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-13	21	n/a	8/23/2023	2.1	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-14A	21	n/a	8/23/2023	0.52J	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-15	21	n/a	8/23/2023	13	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	8/22/2023	52	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-17	21	n/a	8/23/2023	2.6	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-19	21	n/a	8/23/2023	2.6	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-20	21	n/a	8/17/2023	330	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-21	21	n/a	8/23/2023	310	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-22	21	n/a	8/23/2023	71	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-23	21	n/a	8/23/2023	4.9	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-24	21	n/a	8/23/2023	50	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-25	21	n/a	8/22/2023	19	No	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	8/22/2023	240	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	8/22/2023	50	Yes	167	n/a	n/a	23.35	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-10	190	n/a	8/22/2023	56	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-11	190	n/a	8/24/2023	33	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-12	190	n/a	8/24/2023	92	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-13	190	n/a	8/22/2023	84	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-14A	190	n/a	8/24/2023	29	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-15	190	n/a	8/22/2023	150	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	190	n/a	8/19/2023	160	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-17	190	n/a	8/22/2023	81	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-19	190	n/a	8/24/2023	100	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	190	n/a	8/16/2023	910	Yes	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	190	n/a	8/22/2023	690	Yes	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-22	190	n/a	8/24/2023	180	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-23	190	n/a	8/24/2023	73	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-24	190	n/a	8/24/2023	150	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-25	190	n/a	8/19/2023	180	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	8/19/2023	680	Yes	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-9	190	n/a	8/22/2023	110	No	167	n/a	n/a	5.988	n/a	n/a	n/a	0.00007069	NP Inter (normality) 1 of 2

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Exceeds Limit: WGWC-16, WGWC-20,
WGWC-21, WGWC-22, WGWC-24, WGWC-
25, WGWC-8, WGWC-9

Prediction Limit
Interwell Non-parametric



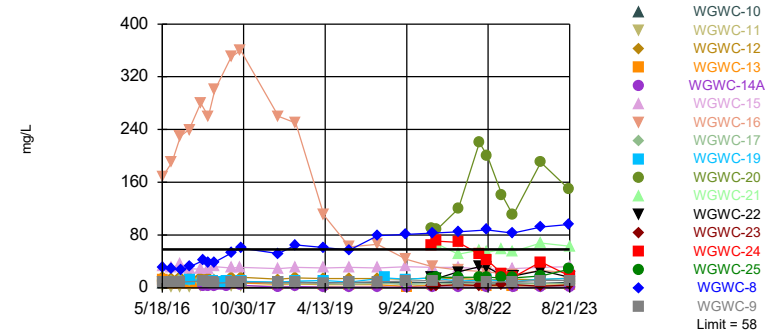
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 167 background values. 94.61% NDs. Annual per-constituent alpha = 0.002401. Individual comparison alpha = 0.00007069 (1 of 2). Comparing 17 points to limit.

Constituent: Boron, total Analysis Run 10/10/2023 12:27 PM View: Appendix III Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting, UG

Exceeds Limit: WGWC-20, WGWC-21,
WGWC-8

Prediction Limit
Interwell Non-parametric



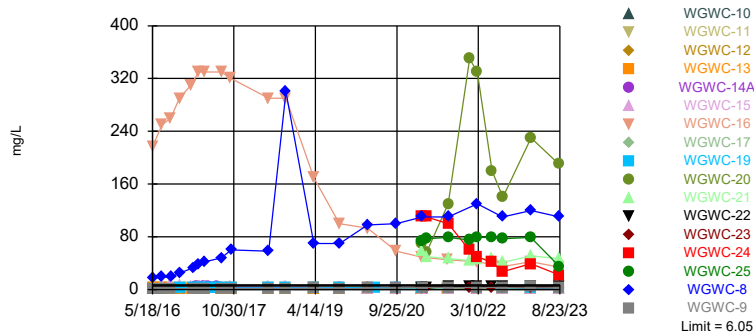
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 167 background values. Annual per-constituent alpha = 0.002401. Individual comparison alpha = 0.00007069 (1 of 2). Comparing 17 points to limit.

Constituent: Calcium, total Analysis Run 10/10/2023 12:27 PM View: Appendix III Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting, UG

Exceeds Limit: WGWC-16, WGWC-20,
WGWC-21, WGWC-24, WGWC-25, WGWC-
8

Prediction Limit
Interwell Non-parametric



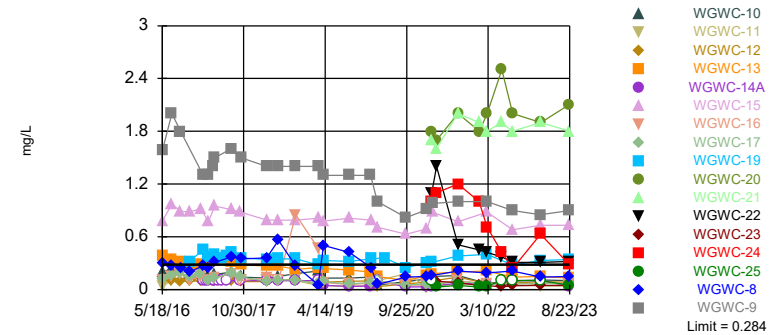
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 167 background values. Annual per-constituent alpha = 0.002401. Individual comparison alpha = 0.00007069 (1 of 2). Comparing 17 points to limit.

Constituent: Chloride, Total Analysis Run 10/10/2023 12:28 PM View: Appendix III Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Exceeds Limit: WGWC-15, WGWC-19,
WGWC-20, WGWC-21, WGWC-22, WGWC-
9

Prediction Limit
Interwell Non-parametric

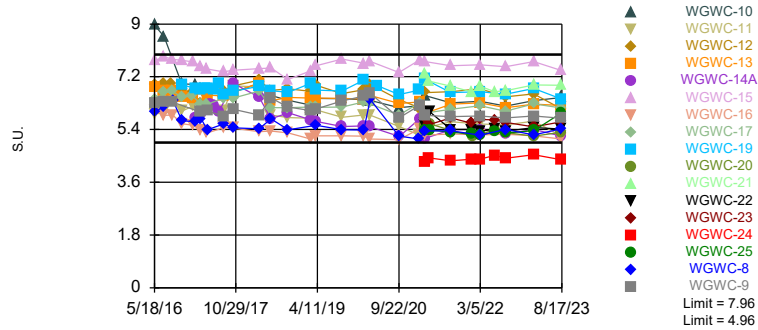


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 199 background values. 45.23% NDs. Annual per-constituent alpha = 0.001686. Individual comparison alpha = 0.00004964 (1 of 2). Comparing 17 points to limit.

Constituent: Fluoride, total Analysis Run 10/10/2023 12:28 PM View: Appendix III Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limits: WGWC-24

Prediction Limit
Interwell Non-parametric



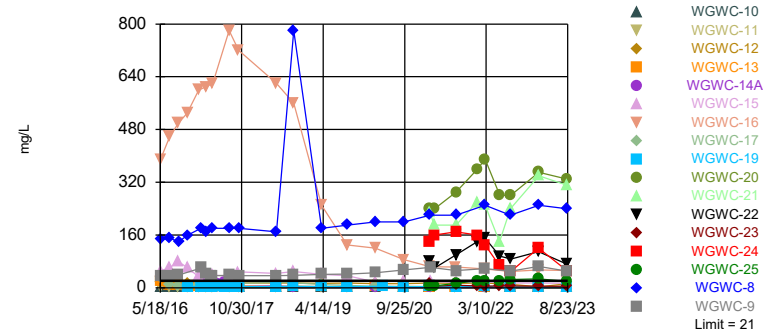
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 198 background values. Annual per-constituent alpha = 0.003411. Individual comparison alpha = 0.0001004 (1 of 2). Comparing 17 points to limit.

Constituent: pH, Field Analysis Run 10/10/2023 12:28 PM View: Appendix III Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Exceeds Limit: WGWC-16, WGWC-20, WGWC-21, WGWC-22, WGWC-24, WGWC-8, WGWC-9

Prediction Limit
Interwell Non-parametric



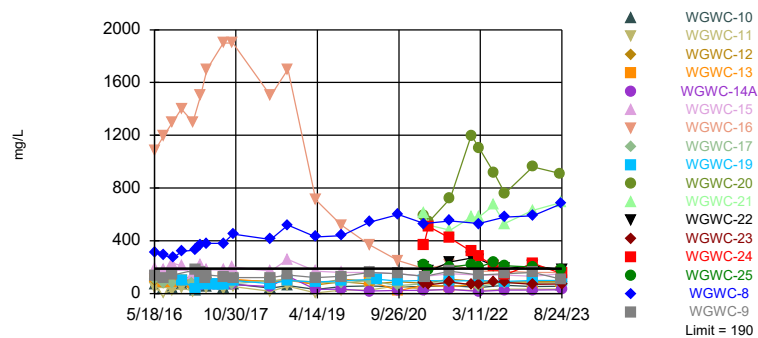
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 167 background values. 23.35% NDs. Annual per-constituent alpha = 0.002401. Individual comparison alpha = 0.00007069 (1 of 2). Comparing 17 points to limit.

Constituent: Sulfate as SO4 Analysis Run 10/10/2023 12:28 PM View: Appendix III Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Exceeds Limit: WGWC-20, WGWC-21, 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 167 background values. 5.988% NDs. Annual per-constituent alpha = 0.002401. Individual comparison alpha = 0.00007069 (1 of 2). Comparing 17 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/10/2023 12:28 PM View: Appendix III Interwell
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-3 (bg)	WGWC-10	WGWC-15	WGWC-16
5/17/2016	<0.1	<0.1	<0.1						
5/18/2016				<0.1	<0.1	<0.1	<0.1	<0.1	4.48
5/19/2016									
7/19/2016	<0.1	<0.1	<0.1		<0.1			<0.1	4.7
7/20/2016				<0.1		<0.1	<0.1		
9/13/2016	<0.1	<0.1	<0.1	<0.1		<0.1			
9/14/2016					<0.1		<0.1	<0.1	5.8
9/15/2016									
11/9/2016	<0.1	<0.1	<0.1						
11/10/2016				<0.1		<0.1		<0.1	6.7
11/11/2016							<0.1		
11/14/2016									
1/17/2017	<0.1	<0.1							
1/18/2017				<0.1		<0.1			
1/19/2017			<0.1		<0.1				
1/20/2017									
1/24/2017								<0.1	6.3
1/27/2017									
2/6/2017							<0.1		
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<0.1	<0.1							
3/14/2017			<0.1	<0.1	<0.1	<0.1		<0.1	
3/15/2017							0.032 (J)		5.9
3/17/2017									
4/11/2017									
4/24/2017	<0.1	<0.1							
4/25/2017			<0.1	<0.1	<0.1	<0.1		<0.1	6.2
4/26/2017							<0.1		
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<0.1	<0.1	<0.1			<0.1			
8/9/2017				<0.1	<0.1			<0.1	6.3
8/10/2017							<0.1		
10/10/2017	<0.1	<0.1							
10/11/2017			<0.1	<0.1	<0.1	<0.1		<0.1	6.8
10/12/2017							<0.1		
6/13/2018	<0.1		<0.1		<0.1				
6/14/2018		<0.1		<0.1		<0.1	<0.1	<0.1	5.4
9/24/2018		<0.1							
9/27/2018	<0.1								
9/28/2018			<0.1						
10/2/2018									
10/3/2018				<0.1	<0.1	<0.1		<0.1	
10/4/2018							<0.1		5.5
4/1/2019	<0.1	<0.1							
4/2/2019			<0.1	<0.1	<0.1	<0.1			
4/3/2019									
4/4/2019							0.024 (J)	<0.1	3.2
9/16/2019	<0.1				<0.1				

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-3 (bg)	WGWC-10	WGWC-15	WGWC-16
9/17/2019		<0.1	<0.1	<0.1					
9/18/2019						<0.1		<0.1	2.1
9/19/2019							<0.1		
3/16/2020	<0.1	0.048 (J)							
3/17/2020			<0.1	<0.1	<0.1	<0.1			
3/18/2020							0.049 (J)	0.071 (J)	2
3/19/2020									
5/4/2020									
9/21/2020		<0.1		<0.1		<0.1			
9/22/2020	<0.1		<0.1		<0.1				
9/23/2020							<0.1	<0.1	1.5
9/24/2020									
3/8/2021									
3/9/2021									
3/10/2021		0.039 (J)	<0.1	<0.1	<0.1	<0.1			
3/11/2021	<0.1						<0.1		1.1
3/12/2021								<0.1	
4/7/2021									
4/8/2021									
8/23/2021		<0.1							
8/24/2021	<0.1			<0.1	<0.1				
8/25/2021			0.1			<0.1			0.89
8/26/2021							<0.1	<0.1	
1/11/2022									
1/12/2022									
2/28/2022				<0.1					
3/1/2022	<0.1	<0.1			<0.1	<0.1			
3/3/2022			0.1				<0.1	<0.1	0.79
3/4/2022									
6/6/2022									
6/7/2022									
8/15/2022	<0.1	0.066 (J)			<0.1				
8/16/2022			<0.1	<0.1		<0.1			
8/17/2022								<0.1	0.73
8/18/2022									
8/19/2022							<0.1		
2/14/2023	0.026 (J)	0.023 (J)	<0.1		0.03 (J)	<0.1			
2/15/2023				<0.1				<0.1	0.86
2/16/2023							0.04 (J)		
8/15/2023									
8/18/2023	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			0.81
8/21/2023							0.031 (J)	<0.1	

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-17	WGWA-6 (bg)	WGWC-12	WGWC-9	WGWC-11	WGWC-13	WGWC-8	WGWC-19
5/17/2016									
5/18/2016	<0.1	<0.1	<0.1						
5/19/2016				<0.1	0.314	<0.1	0.0252 (J)	1.42	
7/19/2016	<0.1		<0.1						
7/20/2016		<0.1		<0.1	0.25	<0.1	<0.1	1.4	
9/13/2016	<0.1		<0.1						
9/14/2016		<0.1		<0.1	0.3	<0.1	<0.1		
9/15/2016								1.2	
11/9/2016			<0.1						
11/10/2016	<0.1	<0.1					<0.1		
11/11/2016				<0.1		<0.1			<0.1
11/14/2016								1.3	
1/17/2017									
1/18/2017	<0.1		<0.1						
1/19/2017									
1/20/2017		<0.1							
1/24/2017									
1/27/2017				0.047 (J)		0.021 (J)	0.033 (J)		
2/6/2017								1.8	<0.1
2/8/2017									
2/9/2017					0.61				
2/23/2017									
3/13/2017									
3/14/2017	<0.1	<0.1	<0.1						
3/15/2017				0.024 (J)	0.42	0.058	<0.1	1.7	0.034 (J)
3/17/2017									
4/11/2017					0.37				<0.1
4/24/2017									
4/25/2017	<0.1	<0.1	<0.1						
4/26/2017				<0.1	0.38	<0.1	<0.1	2	<0.1
5/17/2017									
6/7/2017									<0.1
7/11/2017									<0.1
8/8/2017	<0.1		<0.1						
8/9/2017		<0.1					<0.1		
8/10/2017				<0.1	0.29	<0.1		1.8	<0.1
10/10/2017									
10/11/2017	<0.1	<0.1	<0.1						
10/12/2017				<0.1	0.36	<0.1	<0.1	1.8	<0.1
6/13/2018			<0.1						
6/14/2018	<0.1	<0.1		<0.1	0.39	<0.1	<0.1	1.7	<0.1
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018			<0.1						
10/3/2018	<0.1								
10/4/2018		<0.1		<0.1	0.37	<0.1	<0.1	1.9	<0.1
4/1/2019									
4/2/2019	<0.1		<0.1						<0.1
4/3/2019				<0.1	0.35	<0.1	<0.1	1.7	
4/4/2019		0.049 (J)							
9/16/2019			<0.1						

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-17	WGWA-6 (bg)	WGWC-12	WGWC-9	WGWC-11	WGWC-13	WGWC-8	WGWC-19
9/17/2019									
9/18/2019	<0.1	<0.1					<0.1		<0.1
9/19/2019				<0.1	0.39	<0.1		1.7	
3/16/2020									
3/17/2020	<0.1		<0.1						
3/18/2020		0.049 (J)		0.039 (J)		<0.1			
3/19/2020					0.55		0.053 (J)	2.2	
5/4/2020									<0.1
9/21/2020									
9/22/2020	<0.1		<0.1					2.5	
9/23/2020		<0.1		<0.1	0.68				<0.1
9/24/2020						<0.1	<0.1		
3/8/2021									
3/9/2021									
3/10/2021	<0.1								
3/11/2021		<0.1	<0.1				<0.1	2.4	<0.1
3/12/2021				<0.1	0.64	<0.1			
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021	<0.1		<0.1						
8/25/2021		<0.1		<0.1		<0.1	0.063 (J)		
8/26/2021					0.56			2.4	<0.1
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022			<0.1						
3/3/2022	<0.1				0.62	<0.1	<0.1	2.7	<0.1
3/4/2022		<0.1		<0.1					
6/6/2022									
6/7/2022									
8/15/2022			<0.1						
8/16/2022	<0.1	<0.1				<0.1		2.3	
8/17/2022					0.55				<0.1
8/18/2022				<0.1			<0.1		
8/19/2022									
2/14/2023	0.033 (J)		<0.1						
2/15/2023					0.69				
2/16/2023		<0.1		0.024 (J)		<0.1	0.033 (J)	2.8	<0.1
8/15/2023									
8/18/2023	<0.1		<0.1					2.8	
8/21/2023		<0.1		<0.1	0.6	<0.1	<0.1		<0.1

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-22	WGWC-23	WGWC-24	WGWC-21
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							
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						
4/1/2019							
4/2/2019							
4/3/2019	<0.1						
4/4/2019							
9/16/2019							

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-22	WGWC-23	WGWC-24	WGWC-21
9/17/2019							
9/18/2019	<0.1						
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	<0.1						
3/8/2021		1.3	0.48				
3/9/2021				0.33	0.073 (J)	1.8	0.19
3/10/2021							
3/11/2021	<0.1						
3/12/2021							
4/7/2021					<0.1	1.9	0.13
4/8/2021		0.98	0.43	0.21			
8/23/2021							
8/24/2021							
8/25/2021	0.043 (J)						
8/26/2021		2.1	0.7	0.36	0.052 (J)	2.1	0.087
1/11/2022			0.87	0.39	0.048 (J)	1.7	0.12
1/12/2022		4.9					
2/28/2022							
3/1/2022							
3/3/2022	<0.1					1.6	0.12
3/4/2022		4.3	0.72	0.41	<0.1		
6/6/2022					<0.1	0.64	0.13
6/7/2022		2.8	0.78	0.39			
8/15/2022							
8/16/2022							0.099
8/17/2022			0.82		<0.1		
8/18/2022		2.2				0.44	
8/19/2022	<0.1			0.33			
2/14/2023							
2/15/2023			0.89	0.39	0.049 (J)	1.4	
2/16/2023	0.03 (J)	3.5					0.14
8/15/2023		3.1					
8/18/2023			0.57				
8/21/2023	<0.1			0.33	<0.1	0.59	0.12

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-3 (bg)	WGWC-10	WGWC-15	WGWC-16
5/17/2016	0.927	12.2	23.7						
5/18/2016				17.9	1.7	2.1	7.17	32.5	168
5/19/2016									
7/19/2016	1	13	23		1.5			30	190
7/20/2016				15		1.7	7		
9/13/2016	0.44	13	23	16		1.3			
9/14/2016					52		7.7	37	230
9/15/2016									
11/9/2016	1.1	19	6.7						
11/10/2016				15		1.6		29	240
11/11/2016							8.2		
11/14/2016									
1/17/2017	1.4	28							
1/18/2017				17		1.7			
1/19/2017			8.5		13				
1/20/2017									
1/24/2017								28	280
1/27/2017									
2/6/2017							9.1		
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	1.1	14							
3/14/2017			13	17	1.6	1.8		29	
3/15/2017							9		260
3/17/2017									
4/11/2017									
4/24/2017	1.1	12							
4/25/2017			23	17	1.5	2		32	300
4/26/2017							8.1		
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	1.1	18	24			2			
8/9/2017				15	1.3			30	350
8/10/2017							8.1		
10/10/2017	1.2	21							
10/11/2017			23	17	1.5	2.1		31	360
10/12/2017							8.6		
6/13/2018	1.1		11		1.2				
6/14/2018		12		15		2	7.7	29	260
9/24/2018		11							
9/27/2018	1.2								
9/28/2018			11						
10/2/2018									
10/3/2018				16	1.4	1.8		31	
10/4/2018							8.5		250
4/1/2019	1	12							
4/2/2019			20	15	1.1	1.8			
4/3/2019									
4/4/2019							7.9	30	110
9/16/2019	1.3				36				

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-3 (bg)	WGWC-10	WGWC-15	WGWC-16
9/17/2019		13	10	16					
9/18/2019						1.6		31	62
9/19/2019							7.5		
3/16/2020	1.1	10							
3/17/2020			10	15	1.4	1.7			
3/18/2020							7.5	30	66
3/19/2020									
5/4/2020									
9/21/2020		13		16		1.8			
9/22/2020	1.2		19		58				
9/23/2020							7.7	32	43
9/24/2020									
3/8/2021									
3/9/2021									
3/10/2021		11	7.7	16	1.3	1.9			
3/11/2021	1.3						7.9		32
3/12/2021								31	
4/7/2021									
4/8/2021									
8/23/2021		13							
8/24/2021	1.2			15	47				
8/25/2021			16			1.7			27
8/26/2021							7.6	31	
1/11/2022									
1/12/2022									
2/28/2022				14					
3/1/2022	1.1	13			2.1	1.6			
3/3/2022			6.1				7.1	28	24
3/4/2022									
6/6/2022									
6/7/2022									
8/15/2022	1.2	12			51				
8/16/2022			8.8	16		1.8			
8/17/2022								29	20
8/18/2022									
8/19/2022							7.3		
2/14/2023	1.4	12	5.7		1.3	2			
2/15/2023				18				31	26
2/16/2023							6.9		
8/15/2023									
8/18/2023	1.5	14	8.3	17	26	1.9			23
8/21/2023							8	32	

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-17	WGWA-6 (bg)	WGWC-12	WGWC-9	WGWC-11	WGWC-13	WGWC-8	WGWC-19
5/17/2016									
5/18/2016	1.36	8.24	27						
5/19/2016				15.8	8.53	1.95	11.4	31.4	
7/19/2016	0.88		23						
7/20/2016		11		14	8.2	1.5	7.1	28	
9/13/2016	0.93		25						
9/14/2016		12		16	8.8	1.8	7.4		
9/15/2016								27	
11/9/2016			25						
11/10/2016	6.1	11					6.4		
11/11/2016				15		1.7			12
11/14/2016								32	
1/17/2017									
1/18/2017	10		26						
1/19/2017									
1/20/2017		10							
1/24/2017									
1/27/2017				16		3.5	6.2		
2/6/2017								41	11
2/8/2017									
2/9/2017					10				
2/23/2017									
3/13/2017									
3/14/2017	1.3	8.8	20						
3/15/2017				16	8.6	3.8	6.7	38	10
3/17/2017									
4/11/2017					8.6				11
4/24/2017									
4/25/2017	1.9	12	28						
4/26/2017				3	7.1	4	6.5	39	8.4
5/17/2017									
6/7/2017									9
7/11/2017									9.5
8/8/2017	4.8		26						
8/9/2017		11					7		
8/10/2017				15	7.5	3.5		53	8.8
10/10/2017									
10/11/2017	0.93	10	29						
10/12/2017				16	8.2	2.7	7	60	9.5
6/13/2018			25						
6/14/2018	0.94	6.2		13	7.5	2.2	5.5	52	8.9
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018			26						
10/3/2018	1.2								
10/4/2018		6.4		15	8	2	5.9	65	10
4/1/2019									
4/2/2019	1.1		25						11
4/3/2019				14	7.2	1.7	4.7	61	
4/4/2019		5.6							
9/16/2019			25						

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-17	WGWA-6 (bg)	WGWC-12	WGWC-9	WGWC-11	WGWC-13	WGWC-8	WGWC-19
9/17/2019									
9/18/2019	1.5	5.5					4.9		8.8
9/19/2019				14	8.1	1.4		57	
3/16/2020									
3/17/2020	0.82		26						
3/18/2020		6.3		14		1.6			
3/19/2020					9.3		5	79	
5/4/2020									15
9/21/2020									
9/22/2020	0.89		25					81	
9/23/2020		5.9		13	10				13
9/24/2020						5.2	1.4		
3/8/2021									
3/9/2021									
3/10/2021	0.89								
3/11/2021		5.7	26				4	83	15
3/12/2021				15	11	1.6			
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021	1.7		26						
8/25/2021		6		14		1.5	4		
8/26/2021					9.3			85	10
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022			22						
3/3/2022	1.4				8.6	1.3	3.4	88	12
3/4/2022		5.3		12					
6/6/2022									
6/7/2022									
8/15/2022			24						
8/16/2022	0.94	5.6				1.6		83	
8/17/2022					9				9.8
8/18/2022				13			3.5		
8/19/2022									
2/14/2023	1.3		29						
2/15/2023					11				
2/16/2023		6		12		1.7	3.8	92	13
8/15/2023									
8/18/2023	1.8		27					96	
8/21/2023		6.3		15	11	1.7	4.1		14

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-22	WGWC-23	WGWC-24	WGWC-21
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, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-22	WGWC-23	WGWC-24	WGWC-21
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						
3/8/2021		90	14				
3/9/2021				15	3.2	65	66
3/10/2021							
3/11/2021	0.79						
3/12/2021							
4/7/2021					2.7	71	67
4/8/2021		88	16	14			
8/23/2021							
8/24/2021							
8/25/2021	0.7						
8/26/2021		120	16	24	4.6	69	51
1/11/2022			16	32	3.1	51	57
1/12/2022		220					
2/28/2022							
3/1/2022							
3/3/2022	0.65					42	54
3/4/2022		200	16	31	4		
6/6/2022					4.5	22	58
6/7/2022		140	15	19			
8/15/2022							
8/16/2022							55
8/17/2022			15		4.6		
8/18/2022		110				16	
8/19/2022	0.64			18			
2/14/2023							
2/15/2023			18	26	2.4	39	
2/16/2023	0.69	190					68
8/15/2023		150					
8/18/2023			28				
8/21/2023	0.7			16	4.2	18	63

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-3 (bg)	WGWC-10	WGWC-15	WGWC-16
5/17/2016	3.8	2.5	6.05						
5/18/2016				1.45	2.14	1.92	1.45	4.59	217
5/19/2016									
7/19/2016	3.9	2.6	4		2.4			5.9	250
7/20/2016				1.4		1.8	1.6		
9/13/2016	3.6	2.4	3.1	1.4		1.7			
9/14/2016					2.1		1.5	7.9	260
9/15/2016									
11/9/2016	3.9	2.3	2.3						
11/10/2016				1.3		1.6		6.5	290
11/11/2016							1.5		
11/14/2016									
1/17/2017	3.8	2.3							
1/18/2017				1.3		1.7			
1/19/2017			2		1.8				
1/20/2017									
1/24/2017								4.1	310
1/27/2017									
2/6/2017							1.4		
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	3.4	2.2							
3/14/2017			1.9	1.2	2	1.6		4.4	
3/15/2017							1.4		330
3/17/2017									
4/11/2017									
4/24/2017	3.4	2.2							
4/25/2017			1.9	1.2	1.8	1.6		4	330
4/26/2017							1.3		
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	3.6	2.3	2			1.7			
8/9/2017				1.2	1.9			3.6	330
8/10/2017							1.4		
10/10/2017	3.6	2.5							
10/11/2017			1.9	1.2	2.1	1.6		5	320
10/12/2017							1.3		
6/13/2018	3.8		2		1.7				
6/14/2018		2.3		1.2		1.6	1.3	4.3	290
9/24/2018		2.4							
9/27/2018	4								
9/28/2018			2.1						
10/2/2018									
10/3/2018				1.2	1.8	1.6		4.8	
10/4/2018							1.3		290
4/1/2019	4	2.4							
4/2/2019			2.6	1.2	1.7	1.7			
4/3/2019									
4/4/2019							1.4	3.7	170
9/16/2019	4				1.8				

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-3 (bg)	WGWC-10	WGWC-15	WGWC-16
9/17/2019		2.4	2	1.2					
9/18/2019						1.7		3.2	100
9/19/2019							1.5		
3/16/2020	4.3	2.7							
3/17/2020			2.3	1.4	1.6	1.8			
3/18/2020							1.5	1.7	93
3/19/2020									
5/4/2020									
9/21/2020		2.5		1.2		1.5			
9/22/2020	4		2.1		1.5				
9/23/2020							1.3	1.5	58
9/24/2020									
3/8/2021									
3/9/2021									
3/10/2021		2.6	1.9	1.2	1.8	1.8			
3/11/2021	4.5						1.7		49
3/12/2021								1.6	
4/7/2021									
4/8/2021									
8/23/2021		3.3							
8/24/2021	5.1			1.5	2.1				
8/25/2021			2.3			1.9			45
8/26/2021							1.6	1.4	
1/11/2022									
1/12/2022									
2/28/2022				1.2					
3/1/2022	4.1	2.7			1.5	1.8			
3/3/2022			2				1.6	1.4	42
3/4/2022									
6/6/2022									
6/7/2022									
8/15/2022	4	2.7			1.5				
8/16/2022			1.9	1.2		1.6			
8/17/2022								1.2	35
8/18/2022									
8/19/2022							1.4		
2/14/2023	3.9	2.6	1.9		1.3	1.6			
2/15/2023				1.2				1	42
2/16/2023							1.3		
8/17/2023									
8/22/2023	3.8	2.5	1.8	1.2	1.2	1.6			34
8/23/2023							1.3	0.95 (J)	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-17	WGWA-6 (bg)	WGWC-12	WGWC-9	WGWC-11	WGWC-13	WGWC-8	WGWC-19
5/17/2016									
5/18/2016	2.06	2.72	1.58						
5/19/2016				3.8	1.46	3.21	2.26	17.5	
7/19/2016	2.1		1.6						
7/20/2016		1.9		3.8	1.5	3.4	1.9	19	
9/13/2016	2		1.4						
9/14/2016		1.6		3.7	1.4	3.1	1.6		
9/15/2016								19	
11/9/2016			1.5						
11/10/2016	1.8	1.6					1.4		
11/11/2016				3.5		3.2			2.6
11/14/2016								25	
1/17/2017									
1/18/2017	1.8		1.5						
1/19/2017									
1/20/2017		1.5							
1/24/2017									
1/27/2017				3.1		3.4	1.4		
2/6/2017								33	2.6
2/8/2017									
2/9/2017					1.5				
2/23/2017									
3/13/2017									
3/14/2017	1.8	1.5	2.5						
3/15/2017				3.2	1.3	3.1	1.4	38	2.4
3/17/2017									
4/11/2017					1.2				2.3
4/24/2017									
4/25/2017	1.8	1.8	1.3						
4/26/2017				3.2	1.2	3.1	1.3	42	2.3
5/17/2017									
6/7/2017									2.5
7/11/2017									2.3
8/8/2017	1.9		1.4						
8/9/2017		1.4					1.4		
8/10/2017				3.4	1.3	3.1		48	2.5
10/10/2017									
10/11/2017	1.8	1.5	1.3						
10/12/2017				3.1	1.4	3	1.2	60	2.3
6/13/2018			1.4						
6/14/2018	1.7	1.5		3	1.2	3	1.2	58	2.4
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018			1.4						
10/3/2018	1.8								
10/4/2018		1.5		3.1	1.2	3.1	1.2	300	2.6
4/1/2019									
4/2/2019	1.9		1.5						2.5
4/3/2019				3	2	3.3	1.2	70	
4/4/2019		1.4							
9/16/2019			1.5						

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-17	WGWA-6 (bg)	WGWC-12	WGWC-9	WGWC-11	WGWC-13	WGWC-8	WGWC-19
9/17/2019									
9/18/2019	2	1.5					1.2		2.7
9/19/2019				3.2	1.5	3.2		70	
3/16/2020									
3/17/2020	2.2		1.7						
3/18/2020		1.5		3.2		3.2			
3/19/2020					2.1		1.3	98	
5/4/2020									2.8
9/21/2020									
9/22/2020	1.8		1.4					100	
9/23/2020		1.2		2.8	2.4				2.6
9/24/2020						1	1.6		
3/8/2021									
3/9/2021									
3/10/2021	1.9								
3/11/2021		1.3	1.5				1.2	110	2.9
3/12/2021				3.5	3.4	3.6			
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021	1.9		1.8						
8/25/2021		1.6		3.7		3.5	1.2		
8/26/2021					3.1			110	3.3
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022			1.5						
3/3/2022	2.1				3.5	3.6	1	130	3.2
3/4/2022		1.3		3.2					
6/6/2022									
6/7/2022									
8/15/2022			1.5						
8/16/2022	1.9	1.3				3.5		110	
8/17/2022					3.2				2.8
8/18/2022				3			0.98 (J)		
8/19/2022									
2/14/2023	1.8		1.5						
2/15/2023					3.9				
2/16/2023		1.2		2.9		3.3	0.97 (J)	120	2.6
8/17/2023									
8/22/2023	1.7		1.4		3.3			110	
8/23/2023		1.1		2.8		3.3	0.91 (J)		2.5

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-22	WGWC-23	WGWC-24	WGWC-21
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, Total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-22	WGWC-23	WGWC-24	WGWC-21
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						
3/8/2021		70	74				
3/9/2021				2.9	3.5	110	58
3/10/2021							
3/11/2021	2.6						
3/12/2021							
4/7/2021					3.7	110	50
4/8/2021		57	77	2.4			
8/23/2021							
8/24/2021							
8/25/2021	2.8						
8/26/2021		130	79	4.2	3.3	100	47
1/11/2022			75	5.1	2.9	60	44
1/12/2022		350					
2/28/2022							
3/1/2022							
3/3/2022	2.4					50	45
3/4/2022		330	79	5.3	2.9		
6/6/2022					3.1	41	48
6/7/2022		180	79	4.3			
8/15/2022							
8/16/2022							41
8/17/2022			77		3.2		
8/18/2022		140				27	
8/19/2022	2.1			4.2			
2/14/2023							
2/15/2023			79	4.6	2.9	39	
2/16/2023	1.9	230					51
8/17/2023		190					
8/22/2023			35				
8/23/2023	1.8			3.9	2.9	22	47

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-4 (bg)	WGWC-17	WGWA-6 (bg)	WGWA-7 (bg)	WGWA-3 (bg)	WGWC-16
5/17/2016	0.0131 (J)	0.0538 (J)	0.284 (J)						
5/18/2016				0.164 (J)	0.121 (J)	0.106 (J)	0.018 (J)	0.029 (J)	0.1 (J)
5/19/2016									
7/19/2016	<0.1	<0.1	0.21			0.11 (J)	<0.1		0.14 (J)
7/20/2016				0.17 (J)	0.16 (J)			<0.1	
9/13/2016	<0.1	<0.1	0.15 (J)	0.15 (J)		0.11 (J)	<0.1	<0.1	
9/14/2016					0.19 (J)				0.18 (J)
9/15/2016									
11/9/2016	<0.1	0.085 (J)	<0.1			0.1 (J)			
11/10/2016				0.12 (J)	0.15 (J)		<0.1	<0.1	0.11 (J)
11/11/2016									
11/14/2016									
1/17/2017	<0.1	<0.1							
1/18/2017				0.15 (J)		0.11 (J)	<0.1	<0.1	
1/19/2017			0.087 (J)						
1/20/2017					0.18 (J)				
1/24/2017									0.15 (J)
1/27/2017									
2/6/2017									
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<0.1	<0.1							
3/14/2017			<0.1	0.13 (J)	0.11 (J)	<0.1	<0.1	<0.1	
3/15/2017									0.1 (J)
3/17/2017									
4/11/2017									
4/24/2017	<0.1	<0.1							
4/25/2017			<0.1	0.12 (J)	0.13 (J)	<0.1	<0.1	<0.1	0.13 (J)
4/26/2017									
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<0.1	<0.1	0.087 (J)			0.099 (J)	<0.1	<0.1	
8/9/2017				0.14 (J)	0.19 (J)				0.18 (J)
8/10/2017									
10/10/2017	<0.1	0.18 (J)							
10/11/2017			0.09 (J)	0.14 (J)	0.14 (J)	0.098 (J)	<0.1	<0.1	<0.1
10/12/2017									
3/27/2018	<0.1	<0.1							
3/28/2018			0.11 (J)	0.12 (J)		0.088 (J)	<0.1	<0.1	
3/29/2018									0.13 (J)
3/30/2018					0.095 (J)				
6/13/2018	<0.1		0.085 (J)			0.093 (J)			
6/14/2018		<0.1		0.12 (J)	0.11 (J)		<0.1	<0.1	<0.1
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				0.13 (J)			<0.1	<0.1	
10/4/2018					0.11 (J)				0.85 (J)
2/25/2019	<0.1	0.032 (J)							

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-4 (bg)	WGWC-17	WGWA-6 (bg)	WGWA-7 (bg)	WGWA-3 (bg)	WGWC-16
2/26/2019			0.23	0.14 (J)	0.068 (J)	0.074 (J)	<0.1	<0.1	
2/27/2019									0.47
2/28/2019									
4/1/2019	<0.1	0.061 (J)							
4/2/2019			0.21	0.14 (J)		0.09 (J)	<0.1	0.039 (J)	
4/3/2019									
4/4/2019					0.087 (J)				0.08 (J)
9/16/2019	0.03 (J)					0.1 (J)			
9/17/2019		0.061 (J)	0.079 (J)	0.14 (J)					
9/18/2019					0.066 (J)		0.027 (J)	0.033 (J)	0.058 (J)
9/19/2019									
2/3/2020	0.032 (J)	0.061 (J)							
2/4/2020				0.13		0.13		0.031 (J)	
2/5/2020			0.12				0.026 (J)		
2/7/2020					0.079 (J)				0.072 (J)
3/16/2020	0.042 (J)	0.052 (J)							
3/17/2020			<0.1	0.11		0.037 (J)	0.044 (J)	0.04 (J)	
3/18/2020					<0.1				0.084 (J)
3/19/2020									
5/4/2020									
9/21/2020		0.037 (J)		0.091 (J)				<0.1	
9/22/2020	<0.1		0.1			0.068 (J)	<0.1		
9/23/2020					0.05 (J)				0.049 (J)
9/24/2020									
2/2/2021	0.028 (J)	0.065 (J)	0.071 (J)	0.15			<0.1	0.035 (J)	
2/3/2021						0.088 (J)			
2/4/2021					0.064 (J)				0.052 (J)
3/8/2021									
3/9/2021									
3/10/2021		0.045 (J)	0.046 (J)	0.12			<0.1	<0.1	
3/11/2021	<0.1				0.05 (J)	0.092 (J)			0.061 (J)
3/12/2021									
4/7/2021									
4/8/2021									
8/23/2021		0.097 (J)							
8/24/2021	0.062 (J)			0.17		0.16	0.054 (J)		
8/25/2021			0.13		0.093 (J)			0.077 (J)	0.099 (J)
8/26/2021									
1/11/2022									
1/12/2022									
2/28/2022				0.083 (J)					
3/1/2022	<0.1	0.058 (J)				0.063 (J)		<0.1	
3/3/2022			0.078 (J)				0.038 (J)		0.067 (J)
3/4/2022					0.06 (J)				
6/6/2022									
6/7/2022									
8/15/2022	<0.1	0.057 (J)				0.093 (J)			
8/16/2022			0.06 (J)	0.12	0.06 (J)		<0.1	<0.1	
8/17/2022									0.062 (J)
8/18/2022									
8/19/2022									
2/14/2023	<0.1	0.07 (J)	0.053 (J)			0.11	<0.1	0.041 (J)	

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-4 (bg)	WGWC-17	WGWA-6 (bg)	WGWA-7 (bg)	WGWA-3 (bg)	WGWC-16
2/15/2023				0.14					0.076 (J)
2/16/2023					0.069 (J)				
8/17/2023									
8/22/2023	<0.1	0.061 (J)	0.051 (J)	0.14		0.12	<0.1	0.04 (J)	0.065 (J)
8/23/2023					0.064 (J)				

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-15	WGWA-5 (bg)	WGWC-13	WGWC-11	WGWC-8	WGWC-12	WGWC-9	WGWC-19
5/17/2016									
5/18/2016	0.206	0.779	0.014 (J)						
5/19/2016				0.384	0.039 (J)	0.304	0.12 (J)	1.58	
7/19/2016		0.97	<0.1						
7/20/2016	0.23			0.34	<0.1	0.27	0.11 (J)	2	
9/13/2016									
9/14/2016	0.17 (J)	0.89	0.095 (J)	0.31	<0.1		0.095 (J)	1.8	
9/15/2016						0.24			
11/9/2016									
11/10/2016		0.88		0.26					
11/11/2016	0.14 (J)				<0.1		<0.1		0.32
11/14/2016						0.2			
1/17/2017									
1/18/2017									
1/19/2017			<0.1						
1/20/2017									
1/24/2017		0.92							
1/27/2017				0.28	<0.1		<0.1		
2/6/2017	0.15 (J)					0.27			0.45
2/8/2017									
2/9/2017								1.3	
2/23/2017									
3/13/2017									
3/14/2017		0.77	<0.1						
3/15/2017	0.16 (J)			0.3	<0.1	0.25	<0.1	1.3	0.37
3/17/2017									
4/11/2017								1.4	0.37
4/24/2017									
4/25/2017		0.95	<0.1						
4/26/2017	0.17 (J)			0.33	<0.1	0.31	<0.1	1.5	0.4
5/17/2017									
6/7/2017									0.35
7/11/2017									0.39
8/8/2017									
8/9/2017		0.91	<0.1	0.32					
8/10/2017	0.2				<0.1	0.37	0.11 (J)	1.6	0.42
10/10/2017									
10/11/2017		0.88	<0.1						
10/12/2017	0.14 (J)			0.28	<0.1	0.35	0.091 (J)	1.5	0.36
3/27/2018									
3/28/2018			<0.1						
3/29/2018				0.27	<0.1	0.36	0.089 (J)	1.4	0.34
3/30/2018	0.13 (J)	0.79							
6/13/2018			<0.1						
6/14/2018	0.15 (J)	0.79		0.27	<0.1	0.56	0.1 (J)	1.4	0.35
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018		0.79	<0.1						
10/4/2018	0.18 (J)			0.23	<0.1	0.27	0.12 (J)	1.4	0.35
2/25/2019									

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-15	WGWA-5 (bg)	WGWC-13	WGWC-11	WGWC-8	WGWC-12	WGWC-9	WGWC-19
2/26/2019			<0.1						
2/27/2019	0.21	0.81		0.25	0.047 (J)	0.054 (J)	0.06 (J)		
2/28/2019								1.4	0.28
4/1/2019									
4/2/2019			<0.1						0.33
4/3/2019				0.24	0.048 (J)	0.5	0.084 (J)	1.3	
4/4/2019	0.13 (J)	0.78							
9/16/2019			<0.1						
9/17/2019									
9/18/2019		0.81		0.22					0.32
9/19/2019	0.13 (J)				0.037 (J)	0.42	0.093 (J)	1.3	
2/3/2020									
2/4/2020			<0.1						
2/5/2020	0.14			0.2	0.045 (J)		0.098 (J)	1.3	
2/7/2020		0.79				0.25			0.35
3/16/2020									
3/17/2020			<0.1						
3/18/2020	0.052 (J)	0.71			<0.1		0.033 (J)		
3/19/2020				0.15		0.057 (J)		1	
5/4/2020									0.36
9/21/2020									
9/22/2020			<0.1			0.14			
9/23/2020	0.09 (J)	0.63					0.064 (J)	0.82	0.25
9/24/2020				<0.1	0.18				
2/2/2021									
2/3/2021			<0.1		0.027 (J)	0.15	0.082 (J)		0.3
2/4/2021	0.12	0.69		0.16				0.91	
3/8/2021									
3/9/2021									
3/10/2021			<0.1						
3/11/2021	0.15			0.18		0.16			0.31
3/12/2021		0.88			0.044 (J)		0.096 (J)	0.98	
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021			0.073 (J)						
8/25/2021				0.2	0.056 (J)		0.14		
8/26/2021	0.16	0.77				0.21		1	0.38
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022			<0.1						
3/3/2022	0.067 (J)	0.88		0.21	0.055 (J)	0.19		1	0.4
3/4/2022							0.068 (J)		
6/6/2022									
6/7/2022									
8/15/2022			<0.1						
8/16/2022					<0.1	0.21			
8/17/2022		0.68						0.9	0.28
8/18/2022				0.14			0.073 (J)		
8/19/2022	0.1								
2/14/2023			<0.1						

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-15	WGWA-5 (bg)	WGWC-13	WGWC-11	WGWC-8	WGWC-12	WGWC-9	WGWC-19
2/15/2023		0.73						0.85	
2/16/2023	0.11			0.15	0.041 (J)	0.14	0.089 (J)		0.33
8/17/2023									
8/22/2023			<0.1			0.15 (J)		0.9	
8/23/2023	0.1	0.73		0.13	0.041 (J)		0.083 (J)		0.34

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-22	WGWC-23	WGWC-21	WGWC-24
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, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-22	WGWC-23	WGWC-21	WGWC-24
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)						
3/8/2021		1.8	<0.1				
3/9/2021				1.1	0.092 (J)	1.7	1
3/10/2021							
3/11/2021	0.04 (J)						
3/12/2021							
4/7/2021					0.093 (J)	1.6	1.1
4/8/2021		1.7	0.028 (J)	1.4			
8/23/2021							
8/24/2021							
8/25/2021	0.071 (J)						
8/26/2021		2	0.047 (J)	0.51	0.081 (J)	2	1.2
1/11/2022			0.028 (J)	0.45	0.045 (J)	1.9	1
1/12/2022		1.8					
2/28/2022							
3/1/2022							
3/3/2022	0.057 (J)					1.8	0.71
3/4/2022		2	0.038 (J)	0.42	0.045 (J)		
6/6/2022					0.028 (J)	1.9	0.43
6/7/2022		2.5	<0.1	0.37			
8/15/2022							
8/16/2022						1.8	
8/17/2022			<0.1		0.043 (J)		
8/18/2022		2					0.24
8/19/2022	<0.1			0.31			
2/14/2023							

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-22	WGWC-23	WGWC-21	WGWC-24
2/15/2023			<0.1	0.31	0.048 (J)		0.63
2/16/2023	<0.1	1.9				1.9	
8/17/2023		2.1					
8/22/2023			0.049 (J)				
8/23/2023	0.04 (J)			0.32	0.045 (J)	1.8	0.28

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-5 (bg)	WGWC-17	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-16	WGWC-10
5/17/2016	5.24	6.23	7.81						
5/18/2016				5.47	6.41	7.92	5.5	6.06	8.96
5/19/2016									
7/18/2016	5.434038							5.884339	
7/19/2016		6.285413		5.336672		7.154587	5.43		
7/20/2016					6.662463				8.56774
9/1/2016									
9/13/2016	5.22	6.3	7.18			7.96	5.57		
9/14/2016				7.29	6.7			5.89	
9/15/2016									
11/9/2016	5.57	6.26	6.03			7.27			
11/10/2016					6.51		6.93	5.6	
11/11/2016									6.96
11/14/2016									
1/17/2017	5.48	6.8							
1/18/2017						7.72	7.16		
1/19/2017			6.71	6.59					
1/20/2017					6.55				
1/24/2017								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	5.86	6.27		5.82		
3/15/2017								5.39	6.82
3/17/2017									
4/11/2017									
4/24/2017	5.4	6.35							
4/25/2017			6.93	5.35	6.26	7.73	5.57	5.28	
4/26/2017									6.73
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	5.32	6.23	6.72			7.74	5.6		
8/9/2017				5.25	6.47			5.46	
8/10/2017									6.66
8/25/2017				5.44					
10/10/2017	5.26	6.32							
10/11/2017			6.75	6.99	6.47	7.71	5.43	5.45	
10/12/2017									6.67
3/27/2018	5.39	6.14							
3/28/2018			6.84	5.95		7.28	5.29		
3/29/2018								5.33	
3/30/2018					6.71				6.98
6/13/2018	5.33		6.31	5.13		7.78			
6/14/2018		6.02			6.15		5.39	5.35	6.56
9/24/2018		6.1							
9/27/2018	5.33								
9/28/2018			6.26						
10/2/2018						7.52			
10/3/2018				5.22			5.33		

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-3 (bg)	WGWC-15	WGWA-4 (bg)	WGWC-8	WGWC-12	WGWC-11	WGWC-9	WGWC-13	WGWC-19
5/17/2016									
5/18/2016	5.55	7.75	7.23						
5/19/2016				5.99	6.91	5.93	6.31	6.85	
7/18/2016						5.9661			
7/19/2016		7.876073							
7/20/2016	5.656628		7.281557	6.194334	6.962608		6.345061	6.705264	
9/1/2016					6.96				
9/13/2016	5.63		7.15						
9/14/2016		7.79					6.33	6.7	
9/15/2016				6.38					
11/9/2016									
11/10/2016	5.61	7.76	6.33					6.5	
11/11/2016					6.76	6.03			6.93
11/14/2016				5.7					
1/17/2017									
1/18/2017	5.81		6.94						
1/19/2017									
1/20/2017									
1/24/2017		7.71							
1/27/2017					6.66	6.21		6.47	
2/6/2017				5.66					6.8
2/8/2017									
2/23/2017									
3/13/2017									
3/14/2017	5.53	7.57	6.75						
3/15/2017				5.77	6.3	5.97	5.99	6.75	6.78
3/17/2017									
4/11/2017									6.79
4/24/2017									
4/25/2017	5.59	7.47	6.84						
4/26/2017				5.39	6.67	6.17	6.03	6.57	6.82
5/17/2017									
6/7/2017									6.76
7/11/2017									6.99
8/8/2017	5.52								
8/9/2017		7.37	6.67					6.55	
8/10/2017				5.59	6.7	6.05	5.86		6.59
8/25/2017									
10/10/2017									
10/11/2017	5.51	7.42	6.75						
10/12/2017				5.46	6.89	6.89	6.09	6.67	6.7
3/27/2018									
3/28/2018	5.6		6.79						
3/29/2018				5.43	7.08	6.85	5.89	6.99	6.88
3/30/2018		7.48							
6/13/2018									
6/14/2018	5.58	7.5	6.67	5.76	6.73	5.89	6.47	6.39	6.72
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	5.45	7.11	6.92						

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-3 (bg)	WGWC-15	WGWA-4 (bg)	WGWC-8	WGWC-12	WGWC-11	WGWC-9	WGWC-13	WGWC-19
10/4/2018				5.39	6.79	5.81	6.17	6.5	6.67
2/25/2019									
2/26/2019	5.6		6.74						
2/27/2019		7.4			6.7	5.78		6.47	
2/28/2019							6.045 (D)		6.98
4/1/2019									
4/2/2019	5.69		6.81						6.75
4/3/2019				5.55	6.91	6.07	6.1	6.47	
4/4/2019		7.58							
9/16/2019									
9/17/2019			6.93						
9/18/2019	5.62	7.8						6.46	6.71
9/19/2019				5.39	6.63	5.82	6.38		
2/3/2020									
2/4/2020	5.66		7.29						
2/5/2020					6.76	5.89	6.54	6.44	
2/7/2020		7.66		5.38					7.08
3/16/2020									
3/17/2020	5.61		6.83						
3/18/2020		7.73			6.94	5.89			
3/19/2020				6.43			6.64	6.56	
5/4/2020									6.9
9/21/2020	5.35		6.81						
9/22/2020				5.17					
9/23/2020		7.35			6.42		5.8		6.59
9/24/2020						5.5		6.29	
2/2/2021	5.78		6.61						
2/3/2021				5.08	6.15	5.21			6.75
2/4/2021		7.77					6.22	6.34	
3/8/2021									
3/9/2021									
3/10/2021	5.49		7.19						
3/11/2021				5.35				5.95	7.12
3/12/2021		7.72			6.66	5.46	5.88		
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021			7.22						
8/25/2021	5.52				6.69	5.66		6.27	
8/26/2021		7.58		5.36			5.84		6.66
1/11/2022									
1/12/2022									
2/28/2022			7.14						
3/1/2022	5.59								
3/3/2022		7.61		5.21		5.59	5.86	6.31	6.69
3/4/2022					6.79				
6/6/2022									
6/7/2022									
8/15/2022									
8/16/2022	5.46		6.92	5.4		5.56			
8/17/2022		7.54					5.8		6.6
8/18/2022					6.52			6.15	

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-24	WGWC-21	WGWC-22	WGWC-23
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, Field (S.U.) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-24	WGWC-21	WGWC-22	WGWC-23
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						
3/8/2021		5.36	5.54				
3/9/2021				4.29	7.29	5.56	5.81
3/10/2021							
3/11/2021	5.1						
3/12/2021							
4/7/2021				4.43	7.05		5.57
4/8/2021		5.39	5.6			6.01	
8/23/2021							
8/24/2021							
8/25/2021	5.39						
8/26/2021		5.3	5.37	4.33	6.88	5.4	5.8
1/11/2022		5.26		4.39	6.68	5.4	5.61
1/12/2022			5.19				
2/28/2022							
3/1/2022							
3/3/2022	5.4			4.39	6.88		
3/4/2022		5.21	5.23			5.34	5.74
6/6/2022				4.52	6.69		5.73
6/7/2022		5.32	5.39			5.41	
8/15/2022							
8/16/2022					6.72		
8/17/2022		5.28					5.64
8/18/2022			5.29	4.42			

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-24	WGWC-21	WGWC-22	WGWC-23
8/19/2022	5.25					5.34	
2/14/2023							
2/15/2023		5.36		4.54		5.47	5.49
2/16/2023	5.4		5.17		6.92		
8/11/2023			5.31				
8/14/2023							
8/15/2023		5.97					
8/16/2023	5.17						
8/17/2023				4.37	6.91	5.41	5.66

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-3 (bg)	WGWC-10	WGWC-15	WGWC-16
5/17/2016	<1	1.14	19.9						
5/18/2016				5.32	0.955 (J)	0.821 (J)	2.84	50.7	388
5/19/2016									
7/19/2016	<1	1.4	14		0.76 (J)			62	460
7/20/2016				6.5		0.82 (J)	2.8		
9/13/2016	<1	1.1	11	5.6		0.81 (J)			
9/14/2016					3.4		2.8	79	500
9/15/2016									
11/9/2016	<1	1.1	6.3						
11/10/2016				5.4		0.73 (J)		61	530
11/11/2016							2.6		
11/14/2016									
1/17/2017	<1	2.1							
1/18/2017				5.1		0.99 (J)			
1/19/2017			7.4		21				
1/20/2017									
1/24/2017								34	600
1/27/2017									
2/6/2017							2.7		
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<1	0.97 (J)							
3/14/2017			10	4.6	1.4	0.83 (J)		43	
3/15/2017							2.7		610
3/17/2017									
4/11/2017									
4/24/2017	<1	0.75 (J)							
4/25/2017			10	6.6	0.89 (J)	0.7 (J)		39	620
4/26/2017							2.5		
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<1	1.1	12			0.82 (J)			
8/9/2017				7.3	0.75 (J)			35	780
8/10/2017							2.2		
10/10/2017	<1	1.3							
10/11/2017			11	6.8	<1	0.72 (J)		48	720
10/12/2017							1.9		
6/13/2018	<1		8.2		<1				
6/14/2018		0.84 (J)		6.9		<1	2	44	620
9/24/2018		0.79 (J)							
9/27/2018	<1								
9/28/2018			7.6						
10/2/2018									
10/3/2018				7	<1	0.73 (J)		49	
10/4/2018							1.9		560
4/1/2019	<1	1							
4/2/2019			11	8.1	0.94 (J)	1.1			
4/3/2019									
4/4/2019							2.2	41	250
9/16/2019	0.49 (J)				2.2				

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-3 (bg)	WGWC-10	WGWC-15	WGWC-16
9/17/2019		1.3	8	8.1					
9/18/2019						0.78 (J)		37	130
9/19/2019							2.1		
3/16/2020	0.42 (J)	1.3							
3/17/2020			8.5	12	4	1.2			
3/18/2020							2.1	17	120
3/19/2020									
5/4/2020									
9/21/2020		1.1		7.7		0.77 (J)			
9/22/2020	<1		9		1.5				
9/23/2020							1.8	21	85
9/24/2020									
3/8/2021									
3/9/2021									
3/10/2021		0.9 (J)	7.1	8.1	<1	0.91 (J)			
3/11/2021	<1						2.8		64
3/12/2021								19	
4/7/2021									
4/8/2021									
8/23/2021		1.3							
8/24/2021	<1			7.9	2.8				
8/25/2021			8.2			0.79 (J)			63
8/26/2021							1.8	16	
1/11/2022									
1/12/2022									
2/28/2022				8.4					
3/1/2022	<1	1.6			0.99 (J)	0.98 (J)			
3/3/2022			8.5				2	18	57
3/4/2022									
6/6/2022									
6/7/2022									
8/15/2022	<1	0.54 (J)			1.6				
8/16/2022			7.2	6.9		0.52 (J)			
8/17/2022								14	49
8/18/2022									
8/19/2022							1.6		
2/14/2023	<1	0.66 (J)	7.3		0.66 (J)	0.65 (J)			
2/15/2023				7.8				14	54
2/16/2023							1.8		
8/17/2023									
8/22/2023	<1	0.74 (J)	6.8	7.4	1.2	0.71 (J)			52
8/23/2023							1.7	13	

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-17	WGWA-6 (bg)	WGWC-12	WGWC-9	WGWC-11	WGWC-13	WGWC-8	WGWC-19
5/17/2016									
5/18/2016	0.368 (J)	32.1	8.88						
5/19/2016				15.8	35.9	1.83	19.2	146	
7/19/2016	<1		9						
7/20/2016		9.7		16	37	1.6	11	150	
9/13/2016	<1		8.5						
9/14/2016		6.6		16	39	1.5	8.6		
9/15/2016								140	
11/9/2016			8.2						
11/10/2016	<1	5.2					5.7		
11/11/2016				14		1.4			3.4
11/14/2016								160	
1/17/2017									
1/18/2017	1.4		9.4						
1/19/2017									
1/20/2017		5.3							
1/24/2017									
1/27/2017				15		2.5	6.8		
2/6/2017								180	3.7
2/8/2017									
2/9/2017					60				
2/23/2017									
3/13/2017									
3/14/2017	<1	9.6	2						
3/15/2017				17	44	2.5	11	170	3.6
3/17/2017									
4/11/2017					36				3.2
4/24/2017									
4/25/2017	<1	20	8.2						
4/26/2017				15	37	2.2	8.1	180	3.3
5/17/2017									
6/7/2017									3.8
7/11/2017									3.3
8/8/2017	<1		8.5						
8/9/2017		6.5					8.1		
8/10/2017				16	38	2.3		180	3.7
10/10/2017									
10/11/2017	<1	13	8.3						
10/12/2017				14	37	1.9	6.1	180	3.6
6/13/2018			8.3						
6/14/2018	<1	16		14	37	1.7	5	170	3.5
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018			8.3						
10/3/2018	<1								
10/4/2018		15		14	38	1.6	4.3	780	4.6
4/1/2019									
4/2/2019	0.4 (J)		8.5						3.8
4/3/2019				13	41	1.9	3.8	180	
4/4/2019		9.1							
9/16/2019			8.9						

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-17	WGWA-6 (bg)	WGWC-12	WGWC-9	WGWC-11	WGWC-13	WGWC-8	WGWC-19
9/17/2019									
9/18/2019	<1	7.3					3.9		3.6
9/19/2019				14	42	1.3		190	
3/16/2020									
3/17/2020	0.86 (J)		12						
3/18/2020		4.2		12		1.6			
3/19/2020					45		4	200	
5/4/2020									4.5
9/21/2020									
9/22/2020	0.38 (J)		8					200	
9/23/2020		4.4		12	54				3
9/24/2020						2.7	0.63 (J)		
3/8/2021									
3/9/2021									
3/10/2021	<1								
3/11/2021		3.9	8.4				2.9	220	4
3/12/2021				14	62	2			
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021	<1		8.9						
8/25/2021		3.3		13		1.1	1.8		
8/26/2021					52			220	3.5
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022			9.2						
3/3/2022	<1				58	2.3	3	250	4.8
3/4/2022		3.6		14					
6/6/2022									
6/7/2022									
8/15/2022			7.5						
8/16/2022	<1	3.4				0.98 (J)		220	
8/17/2022					50				2.8
8/18/2022				11			1.7		
8/19/2022									
2/14/2023	<1		7.9						
2/15/2023					65				
2/16/2023		2.6		2.8		1	2.3	250	3
8/17/2023									
8/22/2023	0.45 (J)		7.3		50			240	
8/23/2023		2.6		12		1	2.1		2.6

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-22	WGWC-23	WGWC-24	WGWC-21
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 as SO4 (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-22	WGWC-23	WGWC-24	WGWC-21
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						
3/8/2021		240	4.7				
3/9/2021				80	14	140	230
3/10/2021							
3/11/2021	1.7						
3/12/2021							
4/7/2021					5.1	160	190
4/8/2021		240	5.8	60			
8/23/2021							
8/24/2021							
8/25/2021	<1						
8/26/2021		290	13	100	7.5	170	190
1/11/2022			21	140	5.3	160	260
1/12/2022		360					
2/28/2022							
3/1/2022							
3/3/2022	1.3					130	250
3/4/2022		390	21	150	5		
6/6/2022					5.3	67	140
6/7/2022		280	22	96			
8/15/2022							
8/16/2022							240
8/17/2022			25		5.5		
8/18/2022		280				49	
8/19/2022	<1			87			
2/14/2023							
2/15/2023			27	110	5.2	120	
2/16/2023	0.47 (J)	350					340
8/17/2023		330					
8/22/2023			19				
8/23/2023	0.52 (J)			71	4.9	50	310

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-3 (bg)	WGWC-10	WGWC-15	WGWC-16
5/17/2016	<10	100	112						
5/18/2016				101	33	29	70	190	1080
5/19/2016									
7/19/2016	14	84	80		<10			180	1200
7/20/2016				86		<10	42		
9/13/2016	50	70	120	28		12			
9/14/2016					150		40	230	1300
9/15/2016									
11/9/2016	22	110	76						
11/10/2016				110		30		210	1400
11/11/2016							72		
11/14/2016									
1/17/2017	8	120							
1/18/2017				98		22			
1/19/2017			36		34				
1/20/2017									
1/24/2017								140	1300
1/27/2017									
2/6/2017							24		
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<10	58							
3/14/2017			70	110	32	22		220	
3/15/2017							78		1500
3/17/2017									
4/11/2017									
4/24/2017	10	94							
4/25/2017			70	86	22	22		180	1700
4/26/2017							48		
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<10	62	72			4 (J)			
8/9/2017				92	20			180	1900
8/10/2017							38		
10/10/2017	44	140							
10/11/2017			90	110	4 (J)	10		200	1900
10/12/2017							72		
6/13/2018	24		38		<10				
6/14/2018		80		92		26	40	170	1500
9/24/2018		76							
9/27/2018	28								
9/28/2018			68						
10/2/2018									
10/3/2018				100	24	50		260	
10/4/2018							60		1700
4/1/2019	<10	63							
4/2/2019			100	100	25	28			
4/3/2019									
4/4/2019							30	170	710
9/16/2019	27				41				

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-17	WGWA-6 (bg)	WGWC-12	WGWC-9	WGWC-11	WGWC-13	WGWC-8	WGWC-19
5/17/2016									
5/18/2016	31	107	113						
5/19/2016				101	134	39	127	311	
7/19/2016	<10		92						
7/20/2016		78		76	120	<10	88	290	
9/13/2016	<10		100						
9/14/2016		82		96	140	24	92		
9/15/2016								270	
11/9/2016			130						
11/10/2016	44	98					100		
11/11/2016				100		42			98
11/14/2016								320	
1/17/2017									
1/18/2017	50		120						
1/19/2017									
1/20/2017		82							
1/24/2017									
1/27/2017				50		18	80		
2/6/2017								330	36
2/8/2017									
2/9/2017					180				
2/23/2017									
3/13/2017									
3/14/2017	26	120	110						
3/15/2017				120	160	54	100	370	120
3/17/2017									
4/11/2017					120				68
4/24/2017									
4/25/2017	10	120	100						
4/26/2017				100	140	42	92	380	76
5/17/2017									
6/7/2017									74
7/11/2017									70
8/8/2017	<10		90						
8/9/2017		92					120		
8/10/2017				96	130	30		380	66
10/10/2017									
10/11/2017	42	74	98						
10/12/2017				100	120	54	110	450	100
6/13/2018			110						
6/14/2018	14	100		94	120	16	88	410	74
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018			130						
10/3/2018	6								
10/4/2018		98		110	140	56	100	520	100
4/1/2019									
4/2/2019	15		110						88
4/3/2019				66	120	<10	72	430	
4/4/2019		89							
9/16/2019			110						

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-17	WGWA-6 (bg)	WGWC-12	WGWC-9	WGWC-11	WGWC-13	WGWC-8	WGWC-19
9/17/2019									
9/18/2019	35	79					110		96
9/19/2019				89	130	27		440	
3/16/2020									
3/17/2020	19		120						
3/18/2020		98		73		26			
3/19/2020					160		95	540	
5/4/2020									110
9/21/2020									
9/22/2020	15		130					600	
9/23/2020		60		90	150				94
9/24/2020						60	21		
3/8/2021									
3/9/2021									
3/10/2021	20								
3/11/2021		75	110				63	530	100
3/12/2021				78	130	27			
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021	24		120						
8/25/2021		84		110		32	53		
8/26/2021					170			550	94
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022			140						
3/3/2022	17				140	21	71	530	98
3/4/2022		55		89					
6/6/2022									
6/7/2022									
8/15/2022			120						
8/16/2022	22	81				33		580	
8/17/2022					150				93
8/18/2022				88			89		
8/19/2022									
2/14/2023	24		120						
2/15/2023					160				
2/16/2023		77		89		33	81	590	100
8/16/2023									
8/18/2023									
8/19/2023	29		130					680	
8/22/2023		81			110		84		
8/24/2023				92		33			100

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-22	WGWC-23	WGWC-24	WGWC-21
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 [TDS] (mg/L) Analysis Run 10/10/2023 12:29 PM View: Appendix III Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-22	WGWC-23	WGWC-24	WGWC-21
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						
3/8/2021		590	220				
3/9/2021				200	79	370	610
3/10/2021							
3/11/2021	24						
3/12/2021							
4/7/2021					66	510	520
4/8/2021		540	180	170			
8/23/2021							
8/24/2021							
8/25/2021	30						
8/26/2021		720	200	240	88	420	480
1/11/2022			220	270	67	320	580
1/12/2022		1200					
2/28/2022							
3/1/2022							
3/3/2022	17					280	580
3/4/2022		1100	200	260	69		
6/6/2022					90	210	670
6/7/2022		920	240	210			
8/15/2022							
8/16/2022							530
8/17/2022			210		85		
8/18/2022		760				140	
8/19/2022	26			190			
2/14/2023							
2/15/2023			200	210	71	230	
2/16/2023	27	960					630
8/16/2023		910					
8/18/2023							
8/19/2023			180				
8/22/2023							690
8/24/2023	29			180	73	150	

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 9/29/2023, 9:28 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWC-16	-0.8041	-133	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1864	141	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.04726	109	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-1 (bg)	0.04785	100	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.351	-96	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	9.67	183	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.1038	-121	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-37.36	-129	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-24	-40.27	-33	-25	Yes	9	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	16.97	172	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008559	-142	-111	Yes	25	16	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02438	-131	-111	Yes	25	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-22	-0.2072	-29	-25	Yes	9	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1129	-203	-111	Yes	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-2 (bg)	-0.03385	-124	-111	Yes	25	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-18 (bg)	-0.5904	-90	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.3536	112	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-73.79	-115	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.01	154	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.516	114	87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-1 (bg)	3.478	91	87	Yes	21	19.05	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	47.42	176	87	Yes	21	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 9/29/2023, 9:28 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWA-1 (bg)	0	-18	-87	No	21	95.24	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-18 (bg)	0	0	87	No	21	90.48	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-2 (bg)	0	-52	-87	No	21	80.95	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-3 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-4 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-5 (bg)	0	-17	-81	No	20	95	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-6 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-7 (bg)	0	-18	-87	No	21	95.24	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-16	-0.8041	-133	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-20	0.8962	12	25	No	9	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-21	-0.002107	-4	-25	No	9	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-22	0.01018	6	25	No	9	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-24	-0.62	-24	-25	No	9	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-25	0.1495	16	25	No	9	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1864	141	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.04726	109	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-1 (bg)	0.04785	100	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.351	-96	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-2 (bg)	-0.1601	-39	-87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-3 (bg)	0	9	87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-4 (bg)	0	-12	-87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-5 (bg)	0	-1	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-6 (bg)	0	16	87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-7 (bg)	-0.01082	-10	-87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-20	25.11	10	25	No	9	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-21	1.614	4	25	No	9	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	9.67	183	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.05519	81	87	No	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-18 (bg)	-0.06251	-79	-87	No	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-2 (bg)	0.04696	83	87	No	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-3 (bg)	0	-20	-87	No	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-4 (bg)	0	-63	-87	No	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.1038	-121	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-6 (bg)	0	2	87	No	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-7 (bg)	0	-17	-87	No	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-37.36	-129	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-20	53.26	12	25	No	9	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-21	-3.733	-9	-25	No	9	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-24	-40.27	-33	-25	Yes	9	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-25	0	3	25	No	9	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	16.97	172	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-1 (bg)	0	-13	-111	No	25	76	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008559	-142	-111	Yes	25	16	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-2 (bg)	-0.01627	-104	-111	No	25	36	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-3 (bg)	0	-51	-111	No	25	64	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-4 (bg)	-0.003312	-63	-111	No	25	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-5 (bg)	0	28	105	No	24	87.5	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-6 (bg)	-0.00264	-55	-111	No	25	8	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-7 (bg)	0	-19	-111	No	25	76	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02438	-131	-111	Yes	25	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-19	-0.01088	-93	-111	No	25	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-20	0.1151	16	25	No	9	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-21	0	4	25	No	9	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-22	-0.2072	-29	-25	Yes	9	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1129	-203	-111	Yes	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-1 (bg)	-0.02503	-90	-111	No	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-18 (bg)	-0.1263	-95	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-2 (bg)	-0.03385	-124	-111	Yes	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-3 (bg)	-0.01984	-83	-111	No	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-4 (bg)	0.005211	6	111	No	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-5 (bg)	-0.006546	-10	-111	No	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-6 (bg)	0.02921	71	105	No	24	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWA-7 (bg)	-0.02889	-75	-111	No	25	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	WGWC-24	0.07124	13	25	No	9	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-1 (bg)	0	-11	-87	No	21	90.48	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-18 (bg)	-0.5904	-90	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-2 (bg)	-0.04743	-48	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-3 (bg)	-0.009947	-30	-87	No	21	4.762	n/a	n/a	0.01	NP

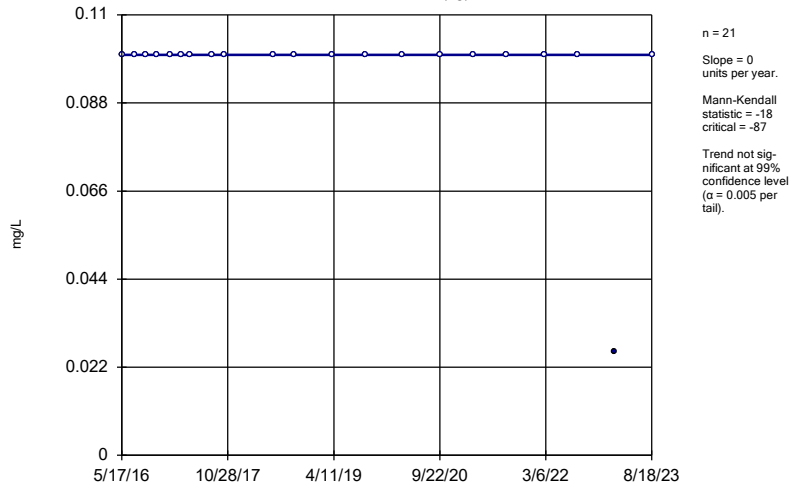
Appendix III Trend Tests - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 9/29/2023, 9:28 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.3536	112	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-5 (bg)	0.01325	10	81	No	20	20	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-6 (bg)	-0.06669	-30	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-7 (bg)	0	-21	-87	No	21	71.43	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-73.79	-115	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-20	35.59	12	25	No	9	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-21	38.75	13	25	No	9	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-22	4.735	2	25	No	9	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-24	-41.44	-21	-25	No	9	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.01	154	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.516	114	87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-1 (bg)	3.478	91	87	Yes	21	19.05	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-18 (bg)	-3.687	-49	-87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-2 (bg)	2.484	38	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-3 (bg)	1.797	52	87	No	21	4.762	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-4 (bg)	1.444	49	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-5 (bg)	2.037	25	81	No	20	10	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-6 (bg)	3.323	75	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-7 (bg)	1.525	29	87	No	21	14.29	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	141	10	25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	51.78	15	25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	47.42	176	87	Yes	21	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

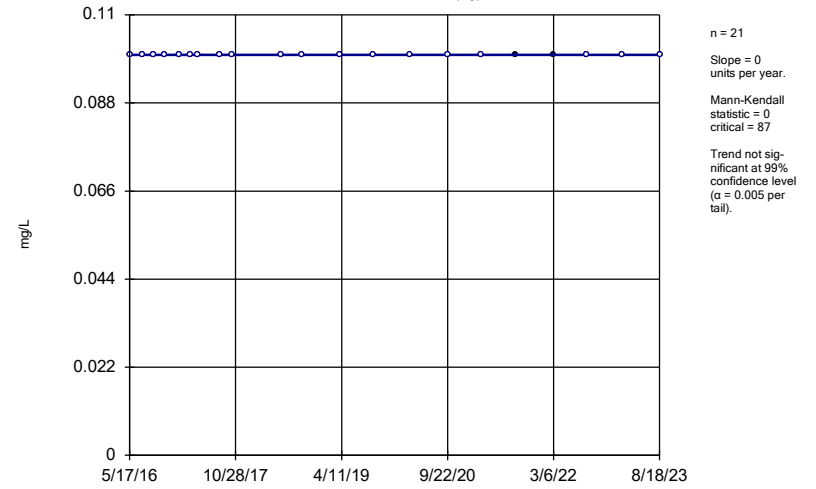
WGWA-1 (bg)



Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

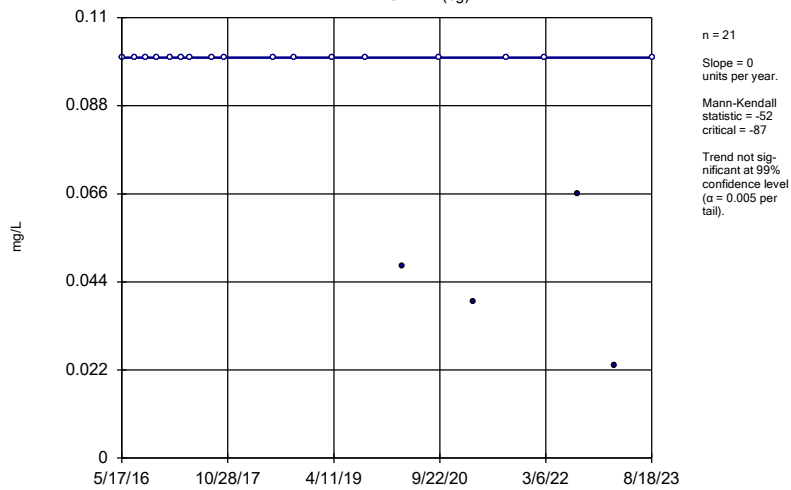
WGWA-18 (bg)



Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

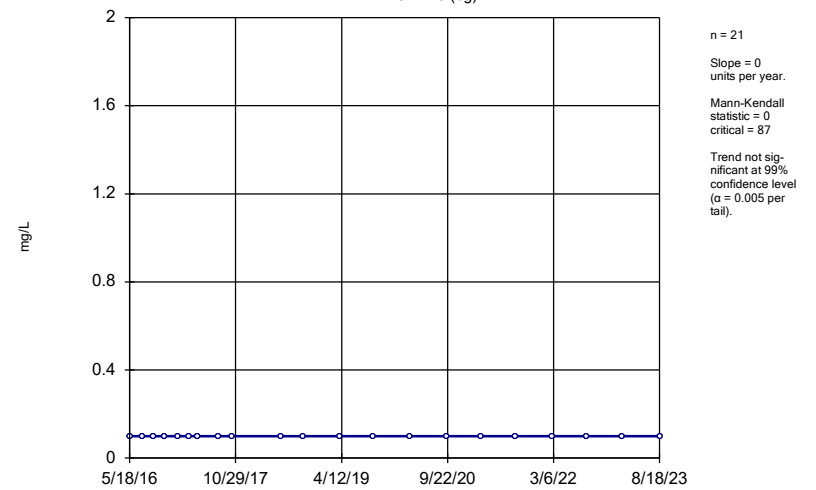
WGWA-2 (bg)



Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

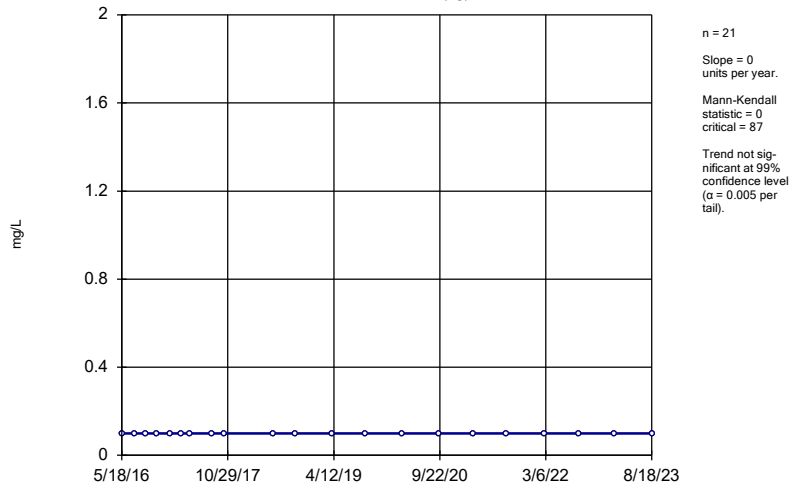
WGWA-3 (bg)



Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

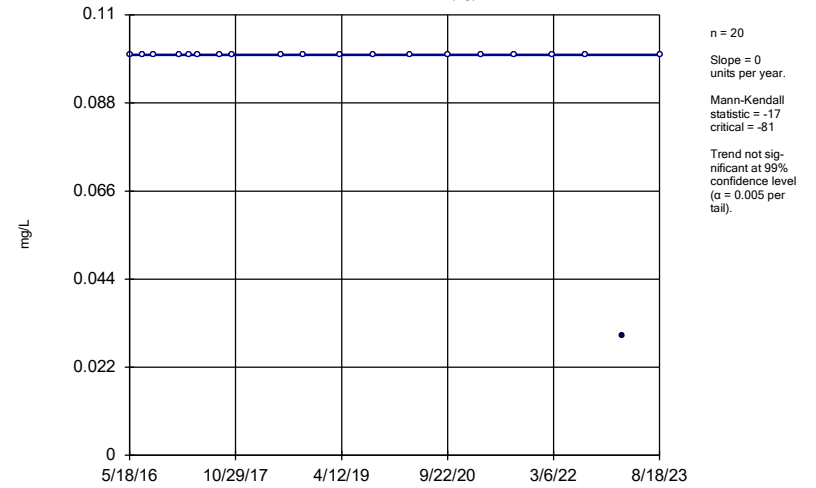
WGWA-4 (bg)



Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

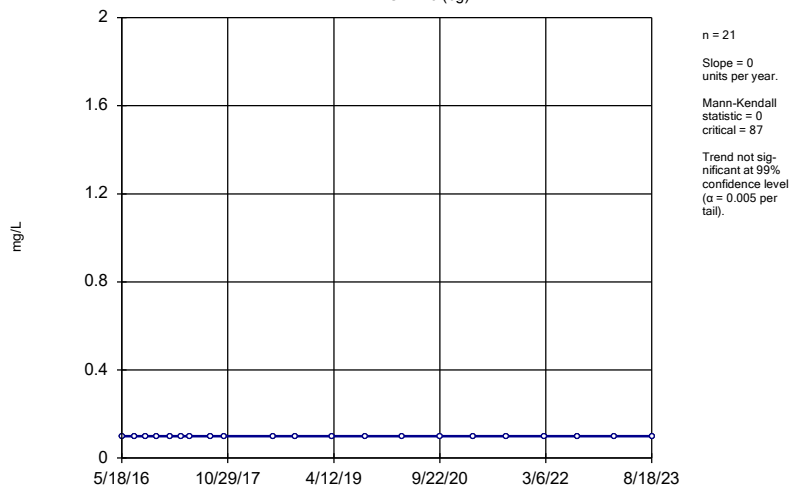
WGWA-5 (bg)



Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

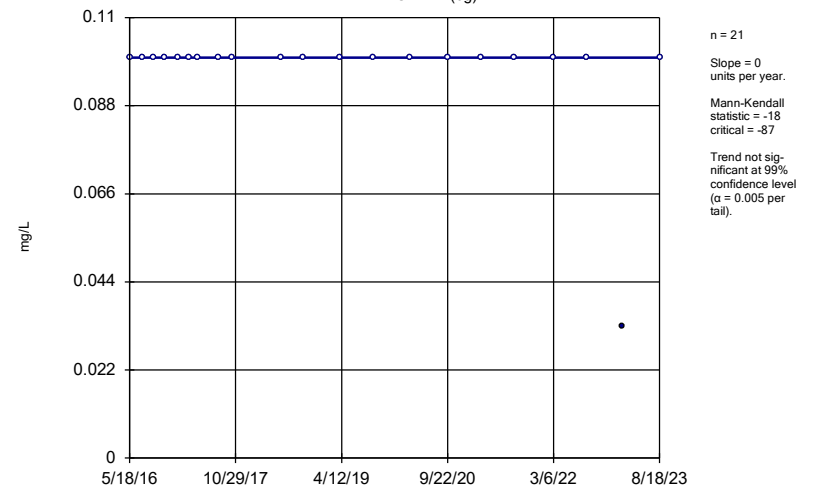
WGWA-6 (bg)



Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

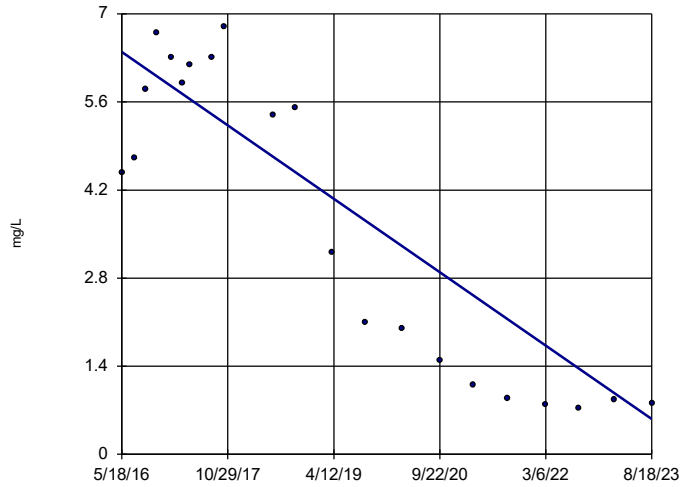
WGWA-7 (bg)



Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-16

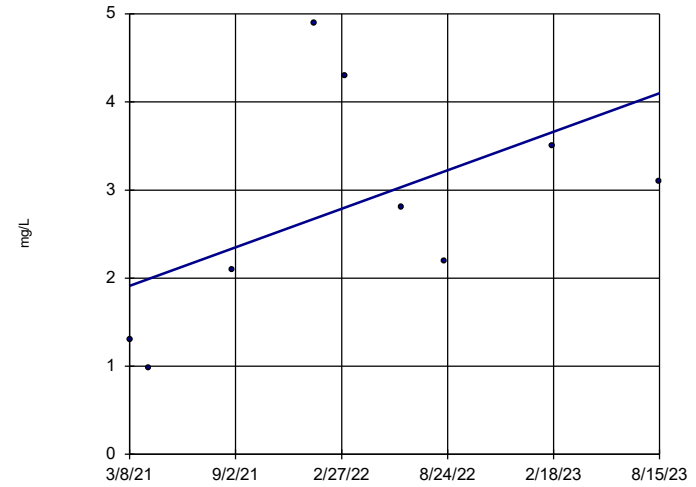


n = 21
 Slope = -0.8041
 units per year.
 Mann-Kendall
 statistic = -133
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-20

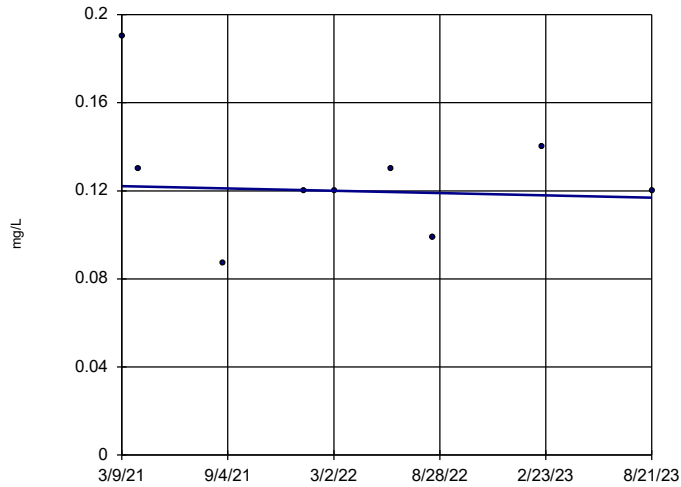


n = 9
 Slope = 0.8962
 units per year.
 Mann-Kendall
 statistic = 12
 critical = 25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-21

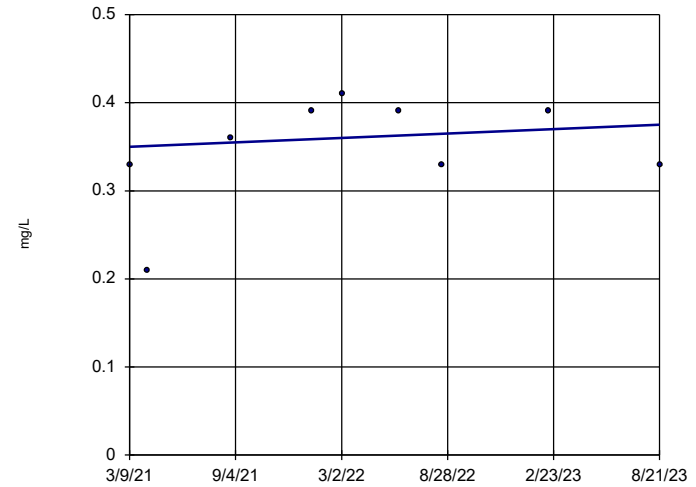


n = 9
 Slope = -0.002107
 units per year.
 Mann-Kendall
 statistic = -4
 critical = -25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-22

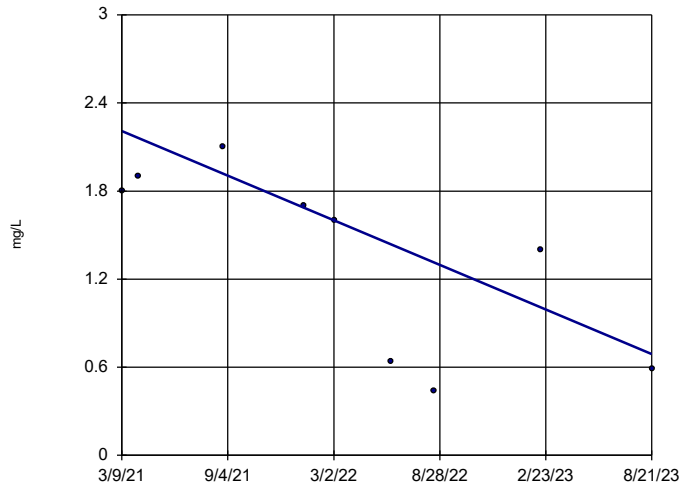


n = 9
 Slope = 0.01018
 units per year.
 Mann-Kendall
 statistic = 6
 critical = 25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-24

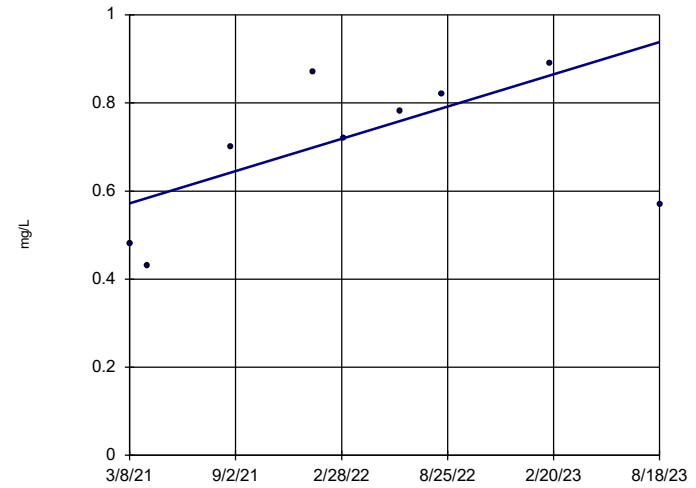


n = 9
 Slope = -0.62
 units per year.
 Mann-Kendall
 statistic = -24
 critical = -25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-25

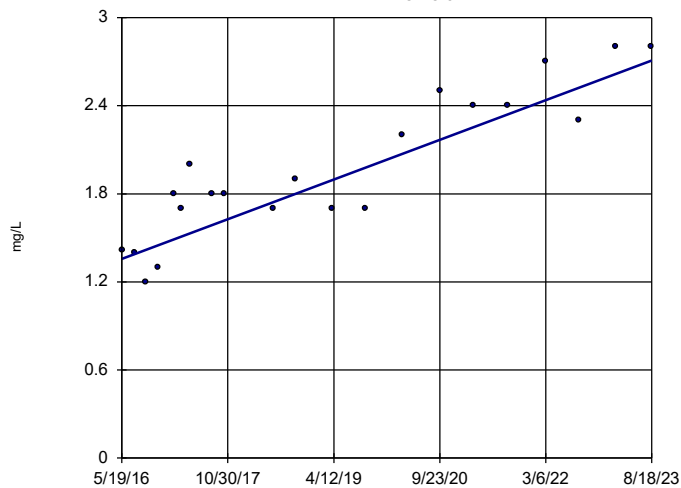


n = 9
 Slope = 0.1495
 units per year.
 Mann-Kendall
 statistic = 16
 critical = 25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-8

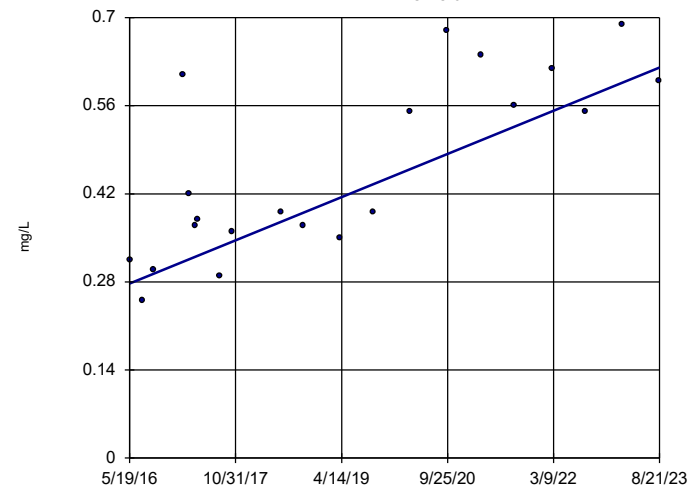


n = 21
 Slope = 0.1864
 units per year.
 Mann-Kendall
 statistic = 141
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-9

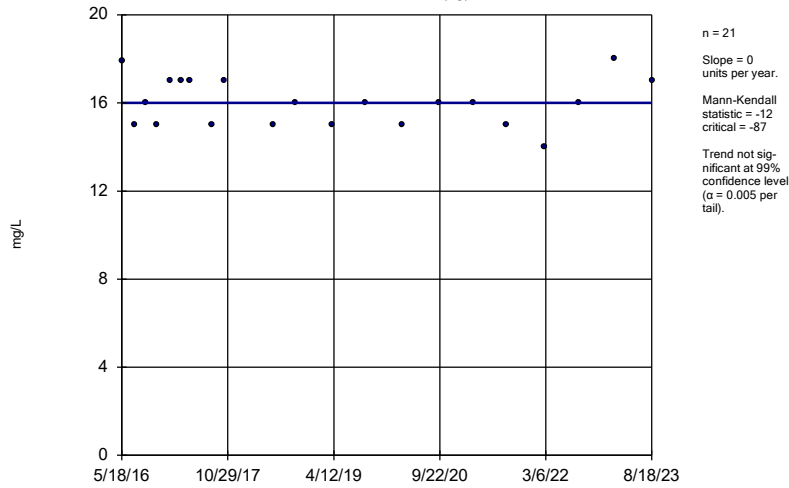


n = 21
 Slope = 0.04726
 units per year.
 Mann-Kendall
 statistic = 109
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

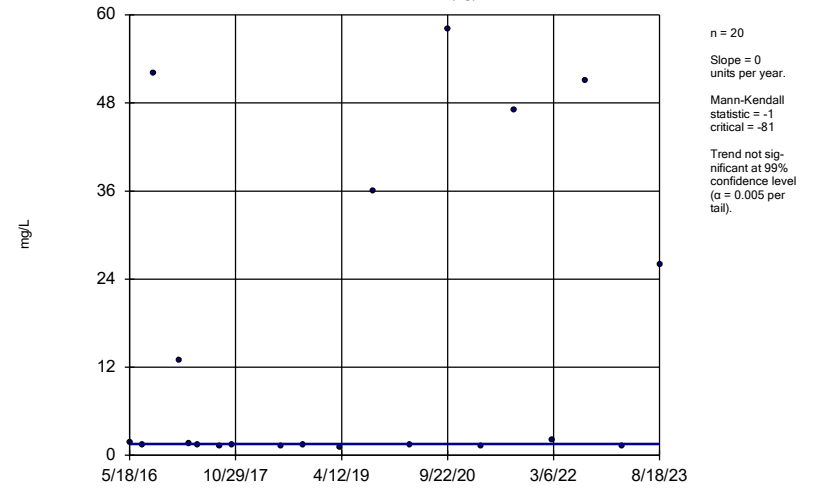
WGWA-4 (bg)



Constituent: Calcium, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

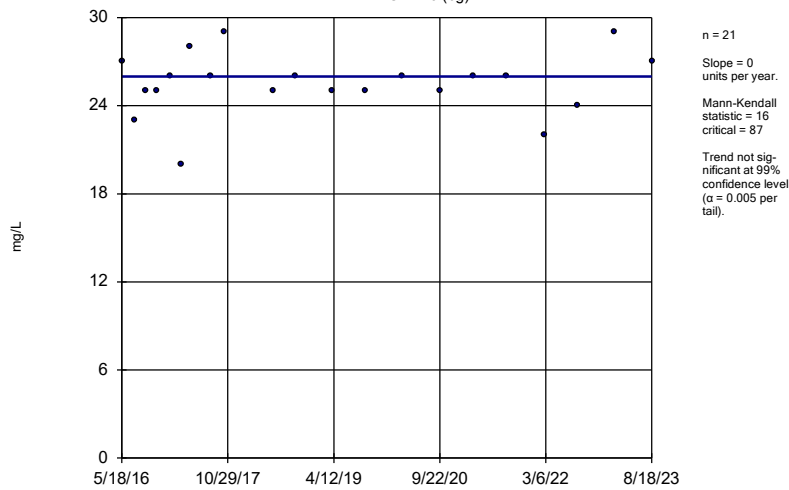
WGWA-5 (bg)



Constituent: Calcium, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

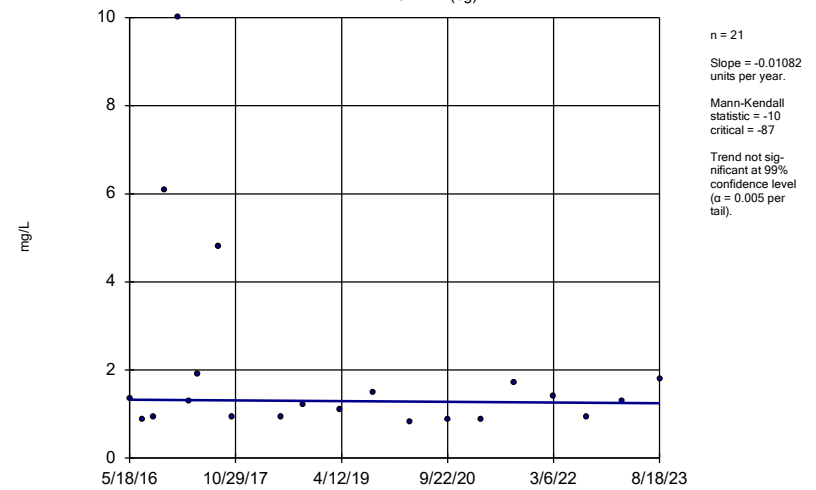
WGWA-6 (bg)



Constituent: Calcium, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

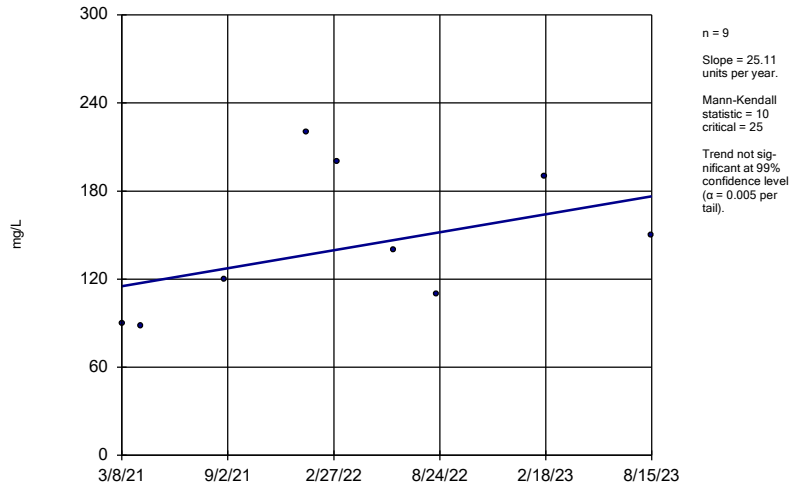
WGWA-7 (bg)



Constituent: Calcium, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

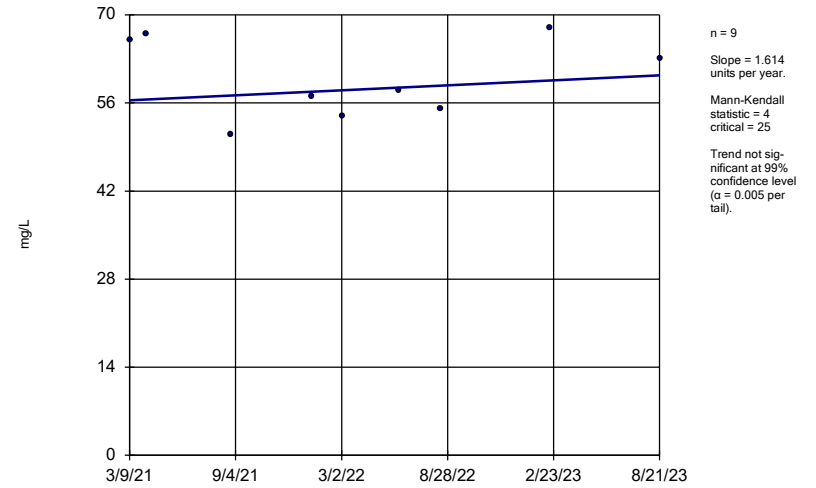
WGWC-20



Constituent: Calcium, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

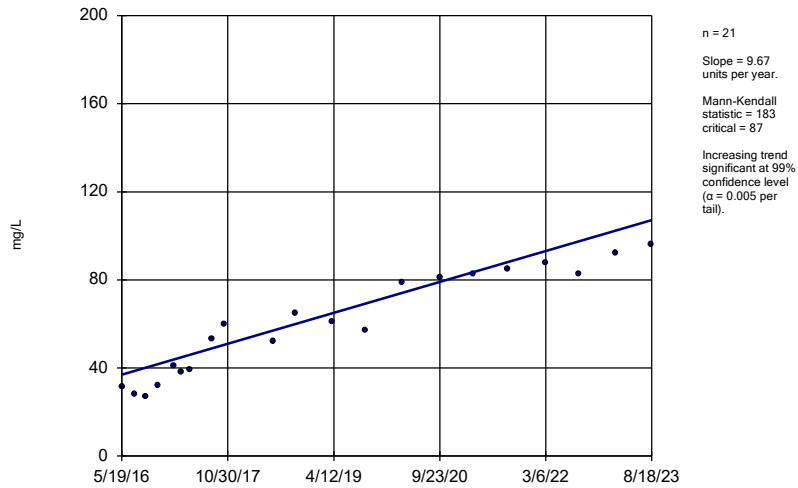
WGWC-21



Constituent: Calcium, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

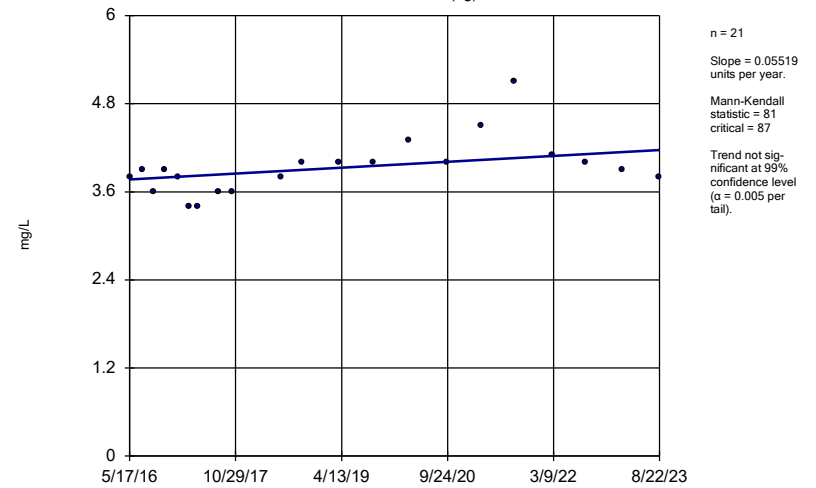
WGWC-8



Constituent: Calcium, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

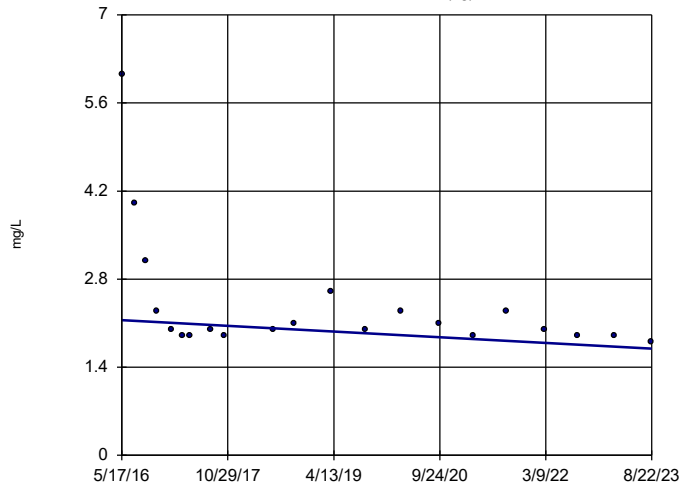
WGWA-1 (bg)



Constituent: Chloride, Total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

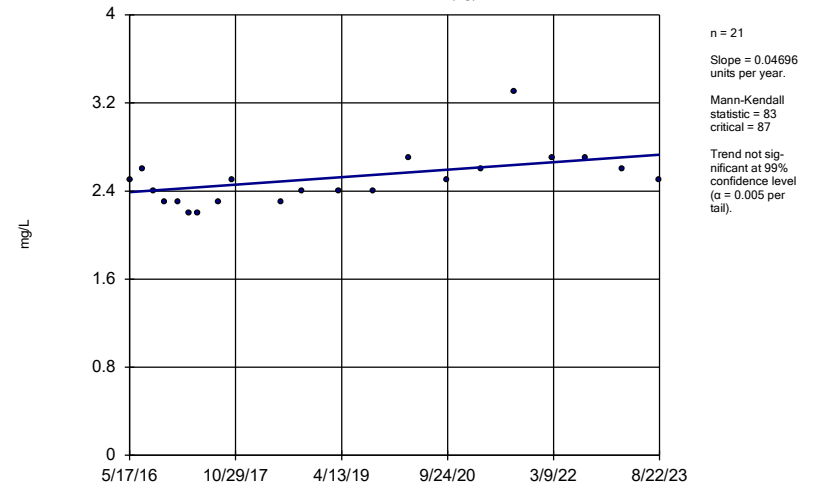
WGWA-18 (bg)



Constituent: Chloride, Total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

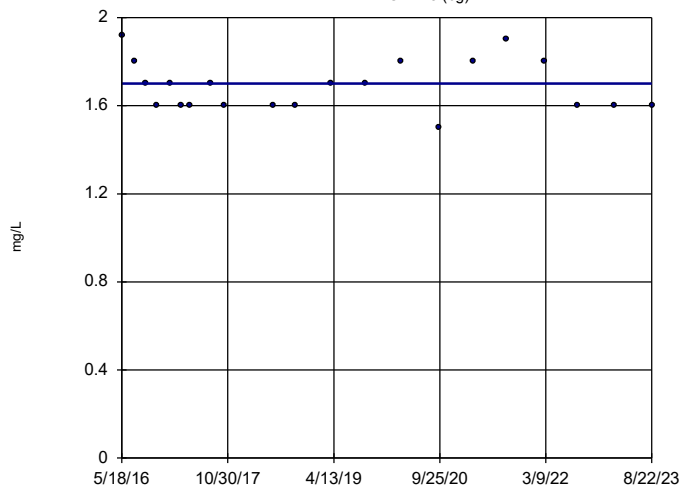
WGWA-2 (bg)



Constituent: Chloride, Total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

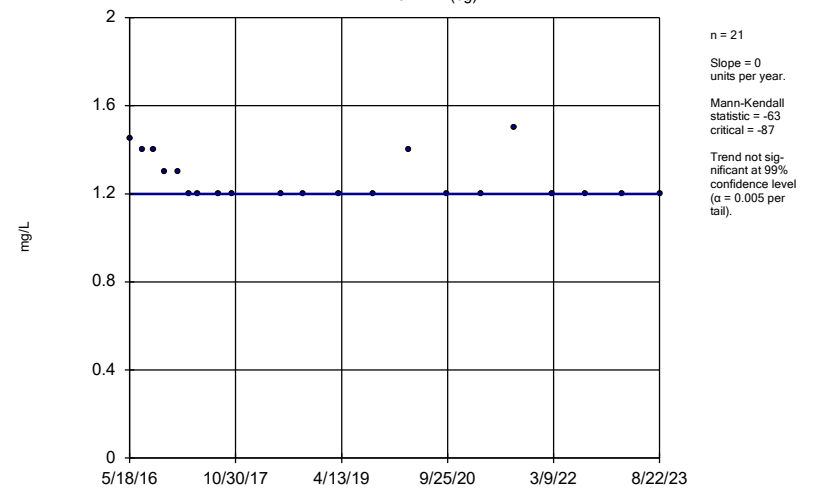
WGWA-3 (bg)



Constituent: Chloride, Total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

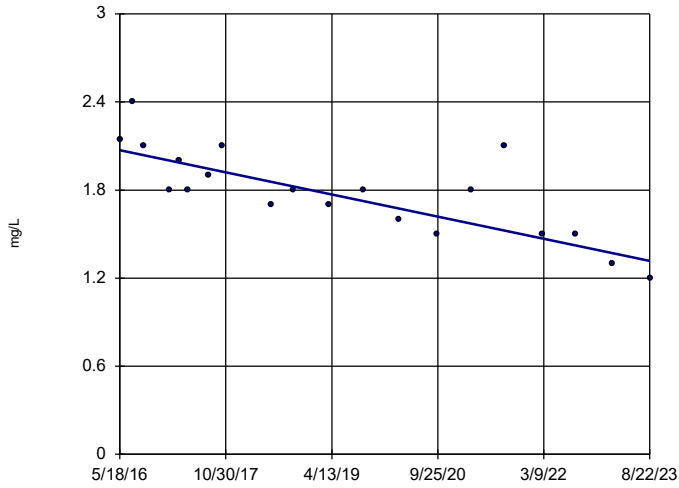
WGWA-4 (bg)



Constituent: Chloride, Total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

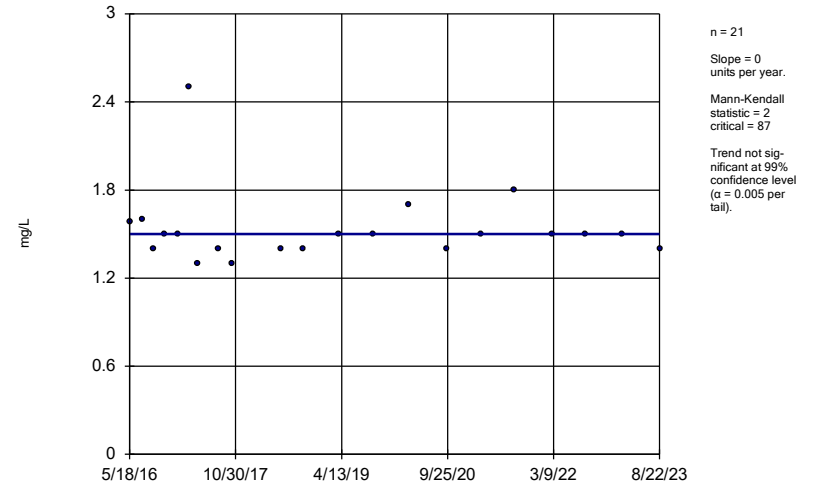
WGWA-5 (bg)



Constituent: Chloride, Total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

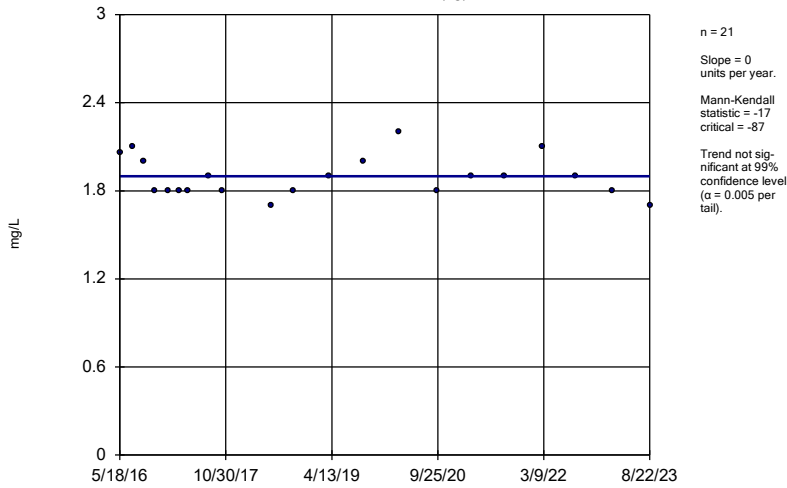
WGWA-6 (bg)



Constituent: Chloride, Total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

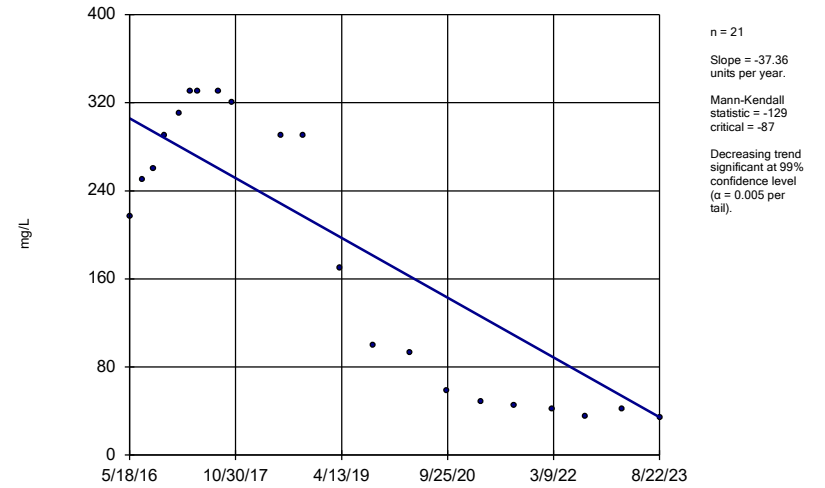
WGWA-7 (bg)



Constituent: Chloride, Total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

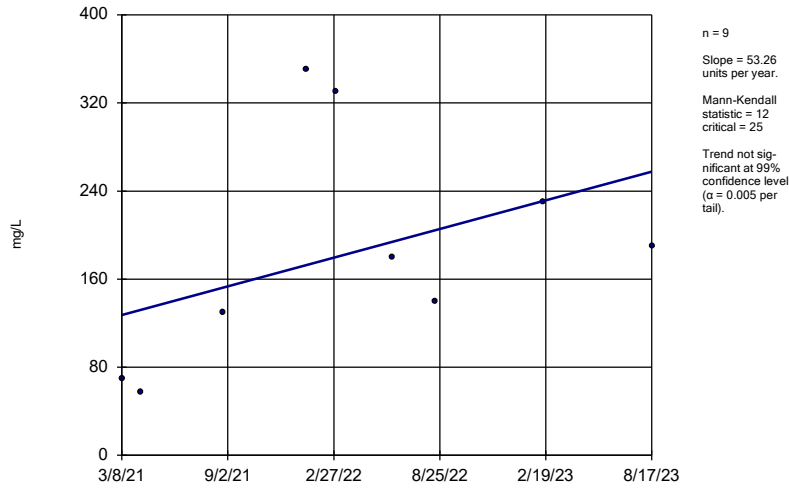
WGWC-16



Constituent: Chloride, Total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

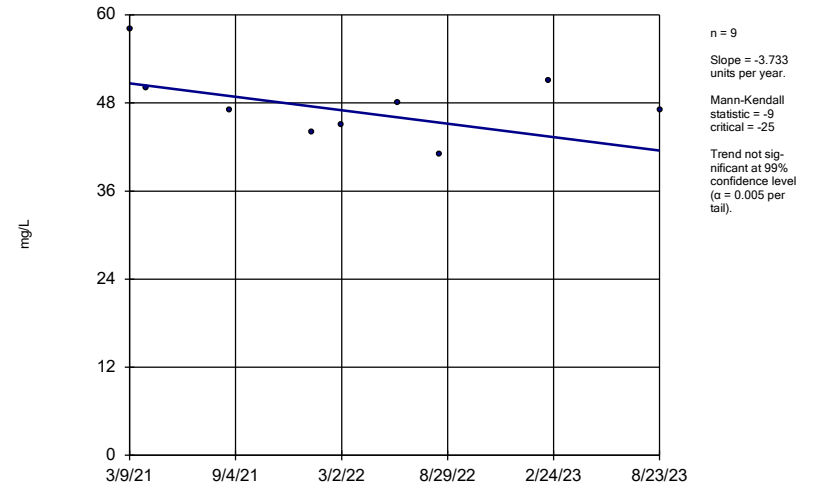
WGWC-20



Constituent: Chloride, Total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

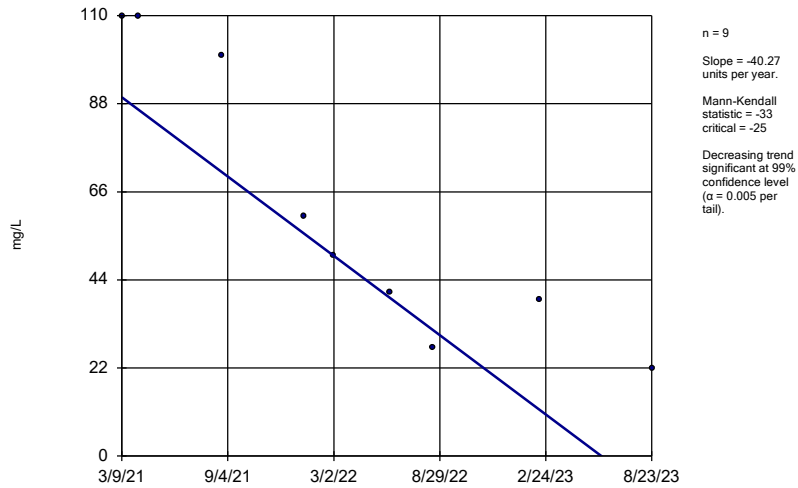
WGWC-21



Constituent: Chloride, Total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

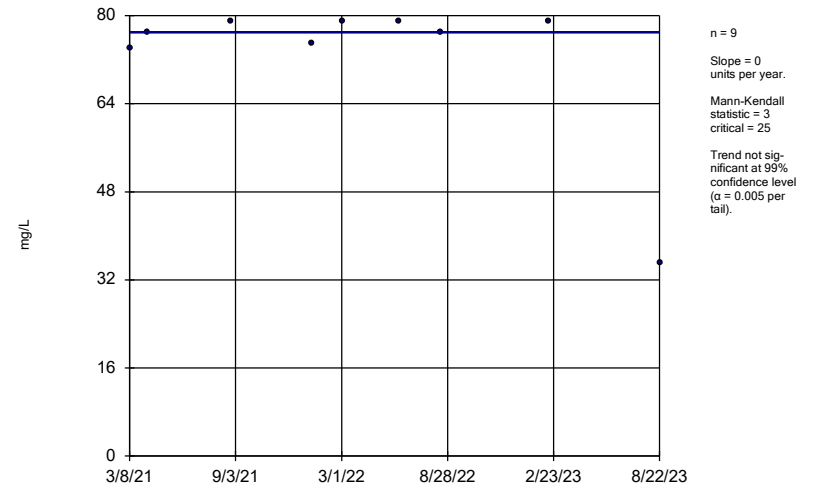
WGWC-24



Constituent: Chloride, Total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

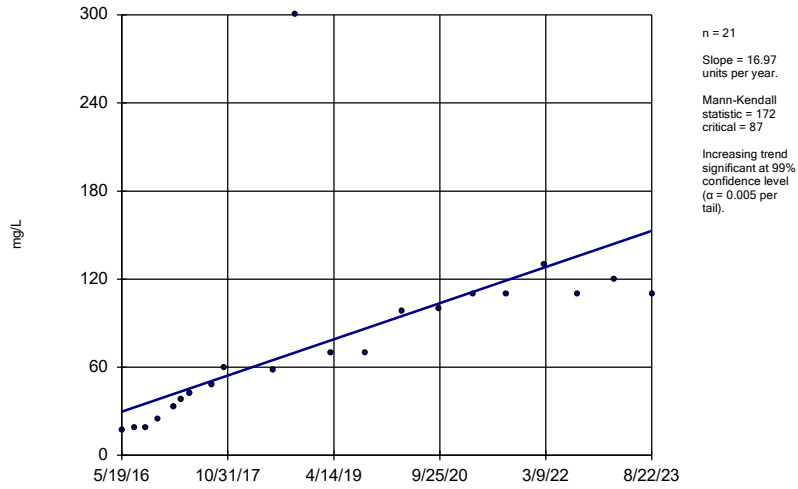
WGWC-25



Constituent: Chloride, Total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-8

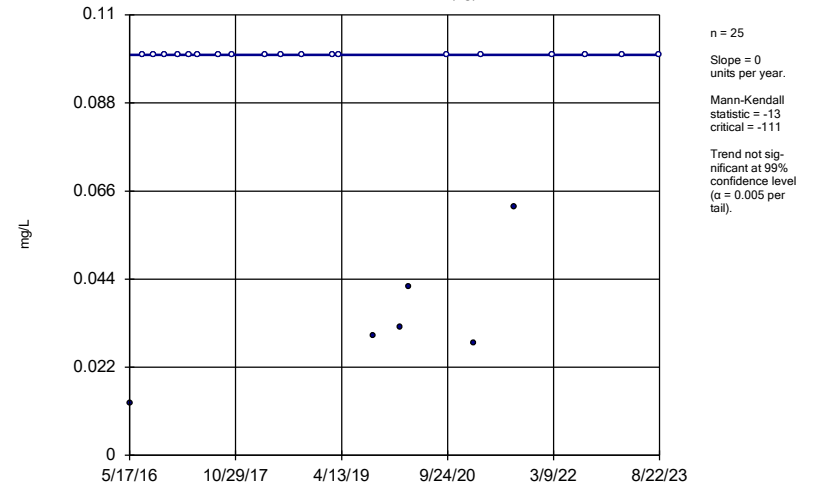


Constituent: Chloride, Total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-1 (bg)

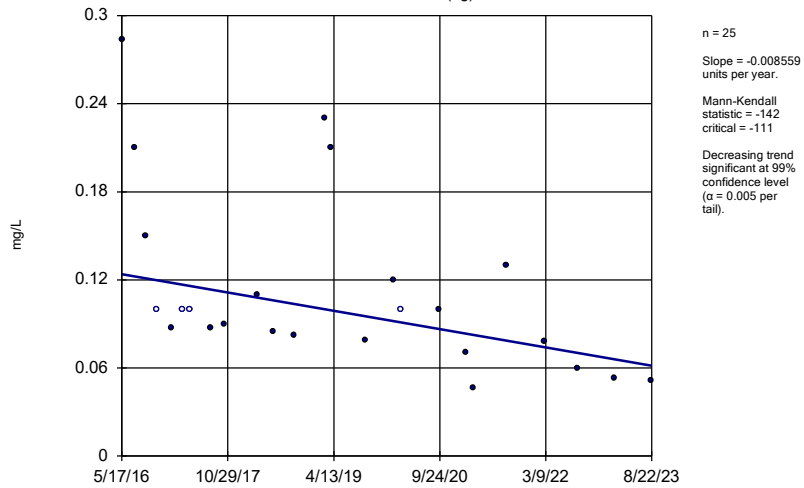


Constituent: Fluoride, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-18 (bg)

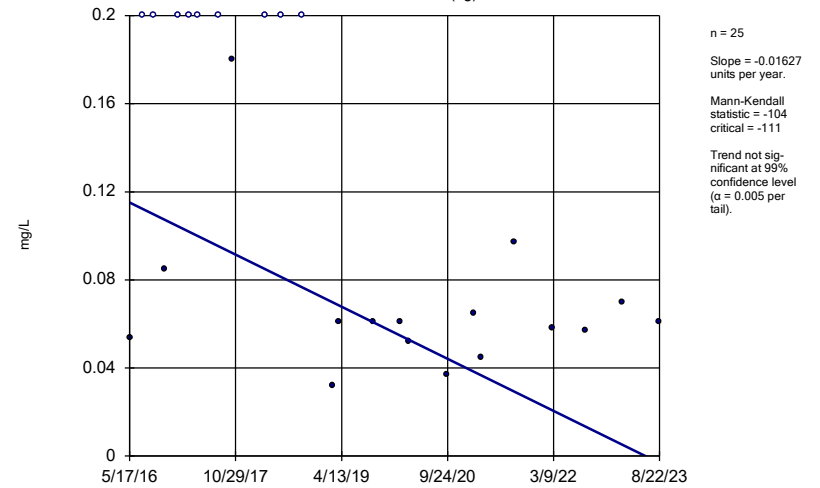


Constituent: Fluoride, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

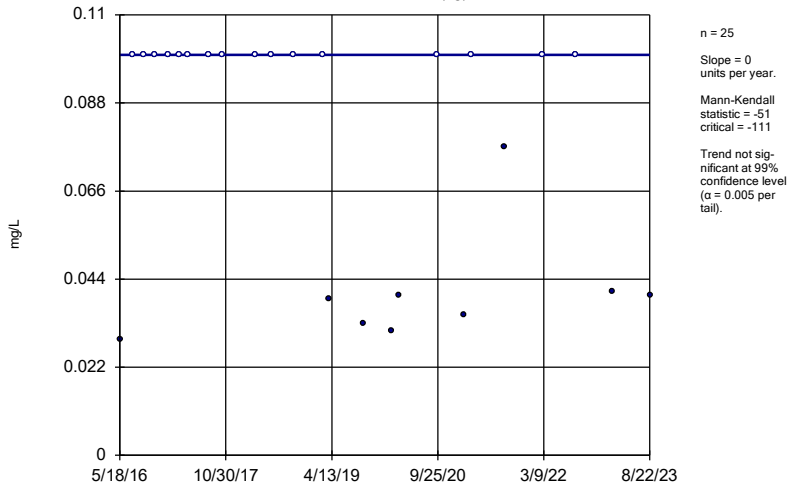
WGWA-2 (bg)



Constituent: Fluoride, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

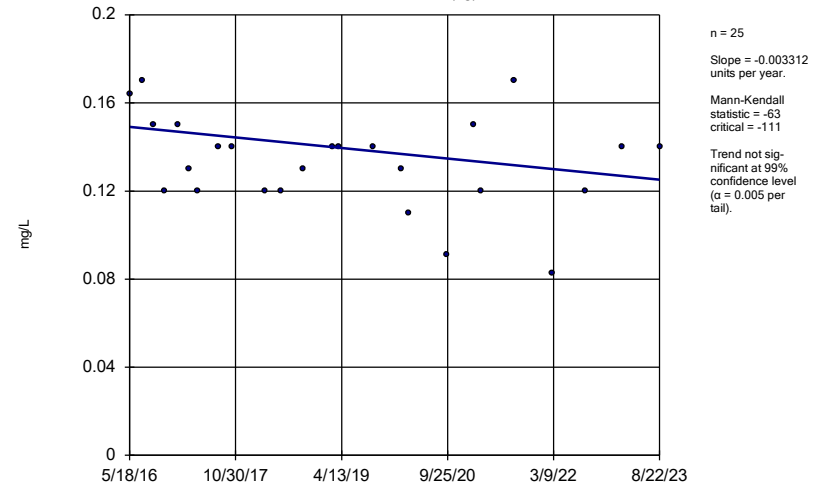
WGWA-3 (bg)



Constituent: Fluoride, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

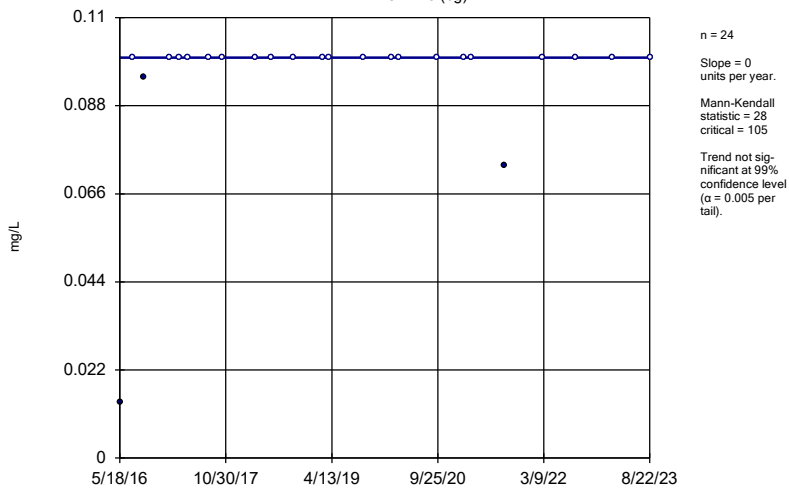
WGWA-4 (bg)



Constituent: Fluoride, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

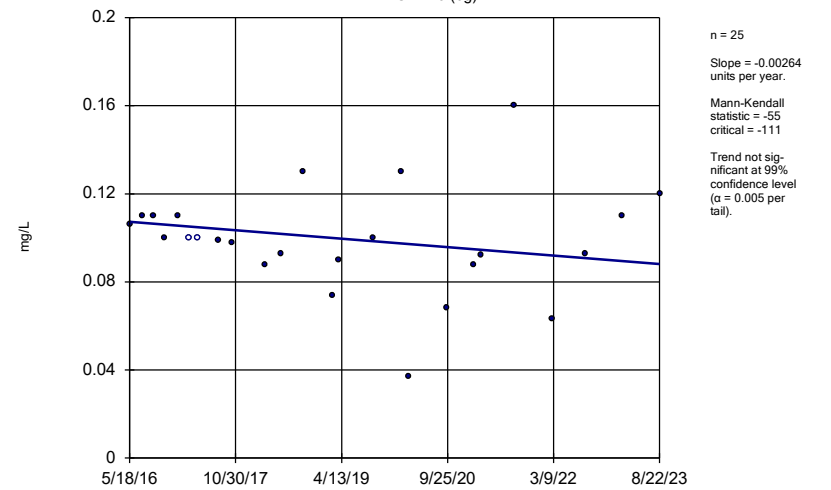
WGWA-5 (bg)



Constituent: Fluoride, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

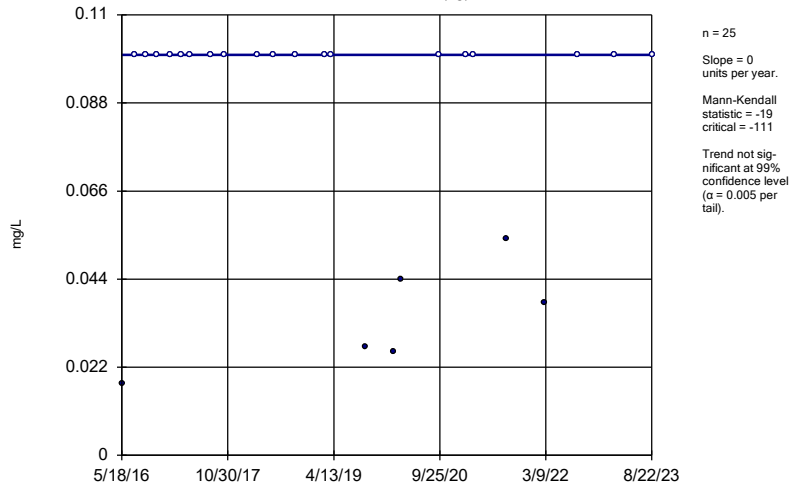
WGWA-6 (bg)



Constituent: Fluoride, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

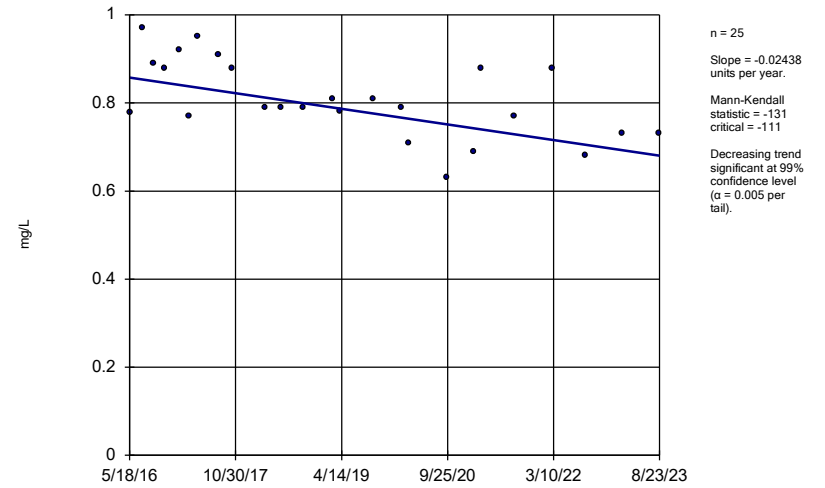
WGWA-7 (bg)



Constituent: Fluoride, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

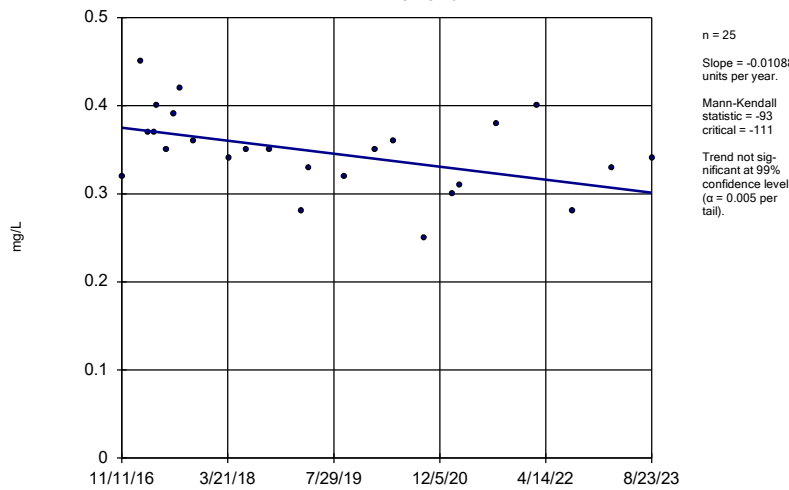
WGWC-15



Constituent: Fluoride, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

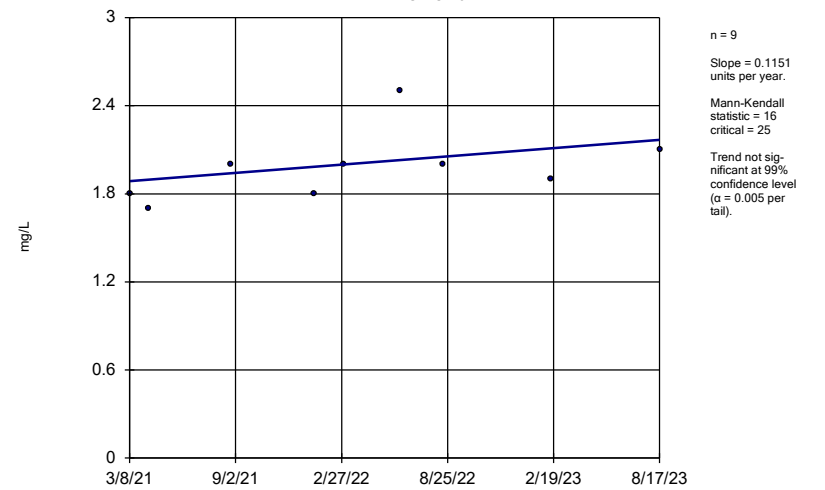
WGWC-19



Constituent: Fluoride, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

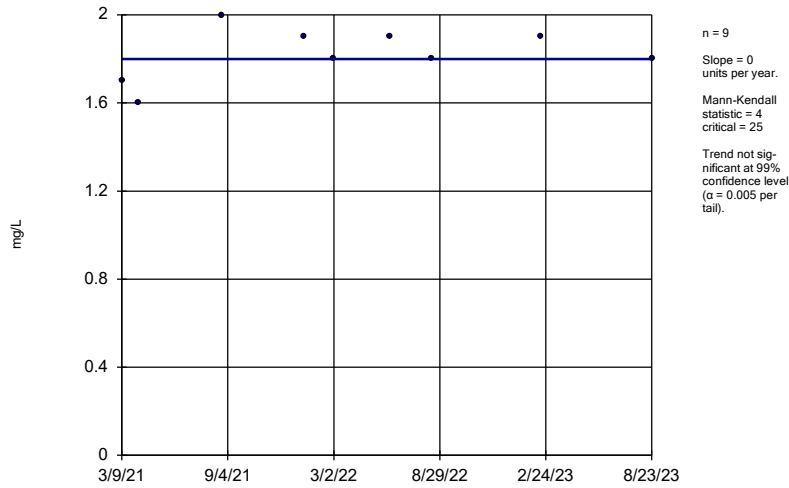
WGWC-20



Constituent: Fluoride, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

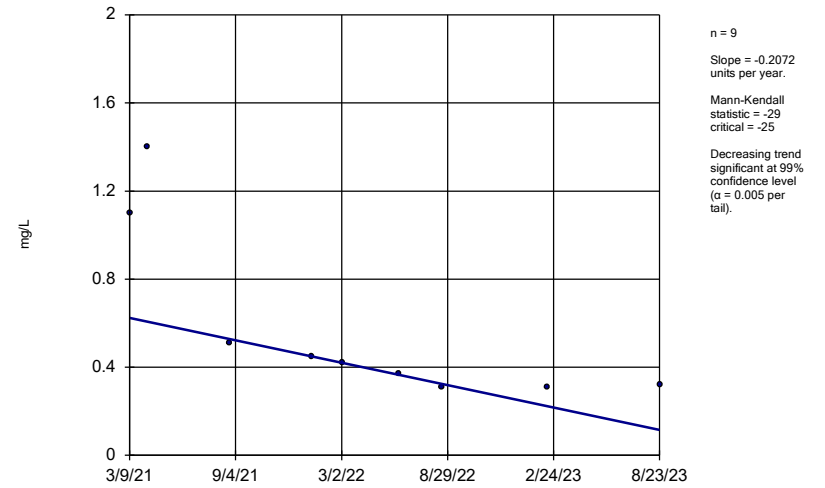
WGWC-21



Constituent: Fluoride, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

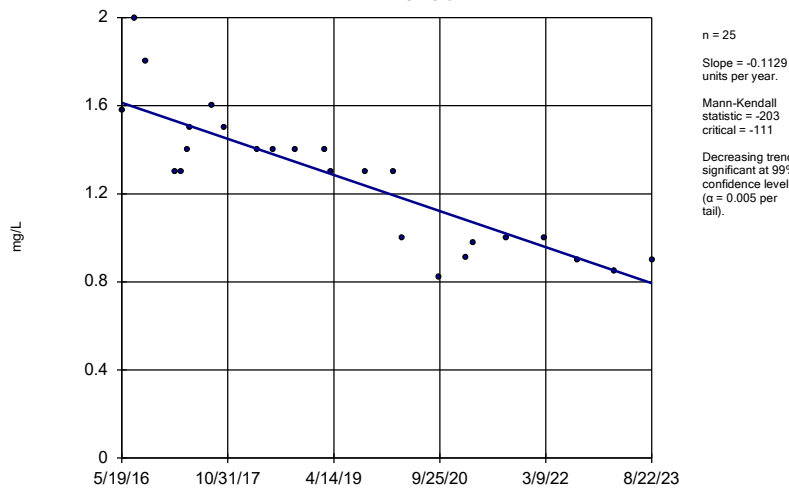
WGWC-22



Constituent: Fluoride, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

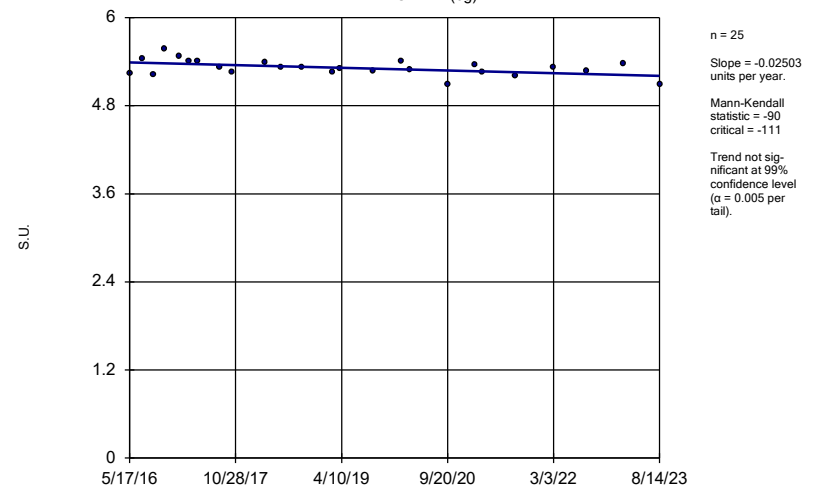
WGWC-9



Constituent: Fluoride, total Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

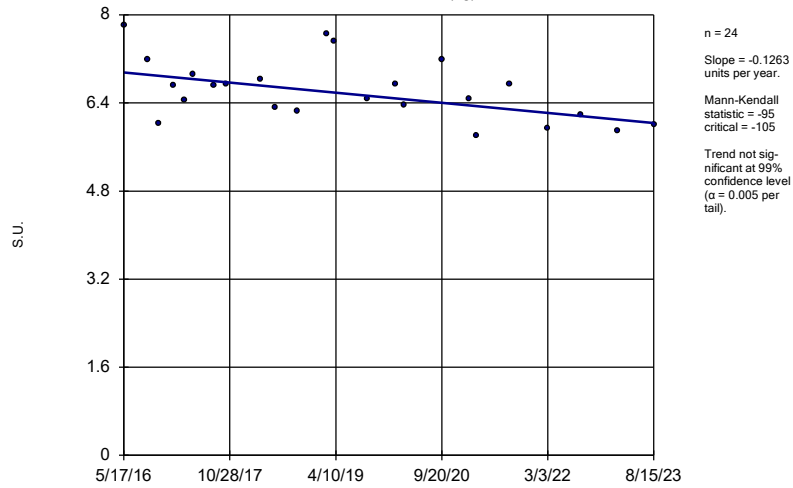
WGWA-1 (bg)



Constituent: pH, Field Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

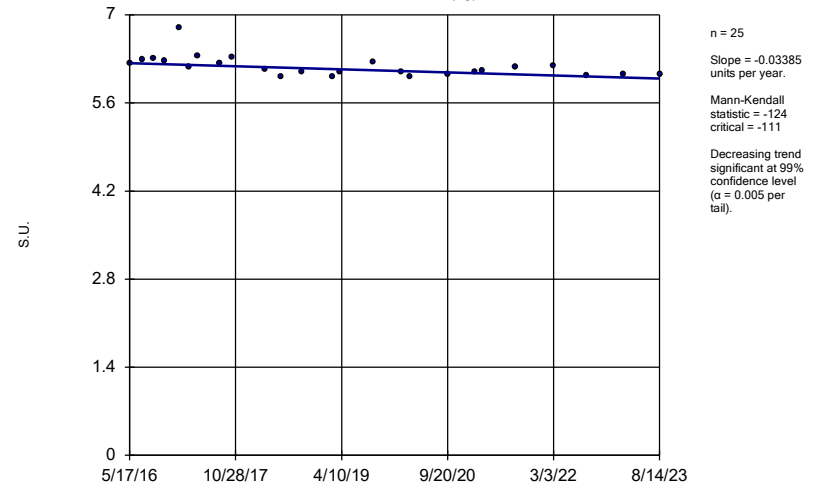
WGWA-18 (bg)



Constituent: pH, Field Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

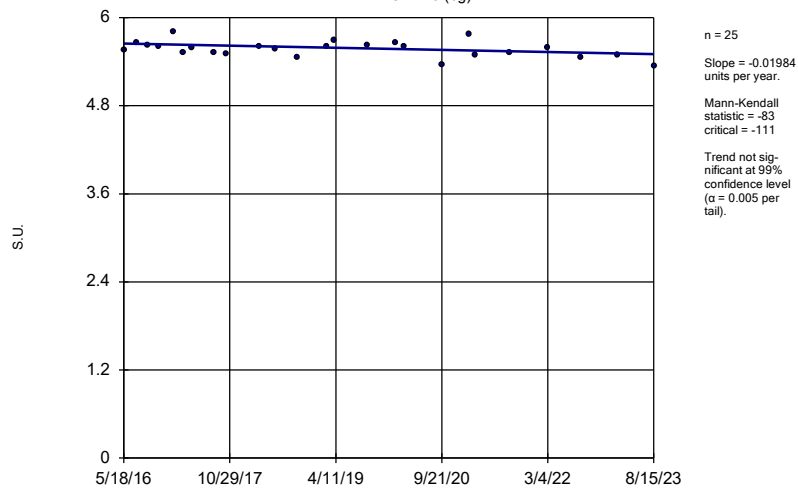
WGWA-2 (bg)



Constituent: pH, Field Analysis Run 9/29/2023 9:26 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

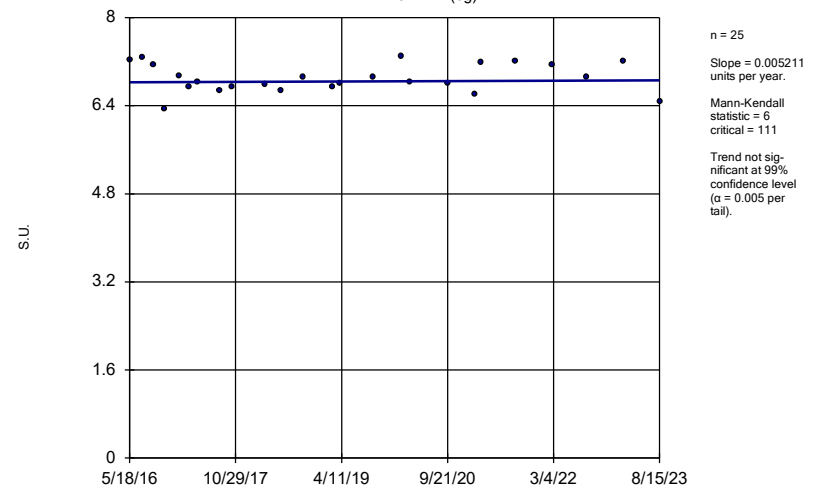
WGWA-3 (bg)



Constituent: pH, Field Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

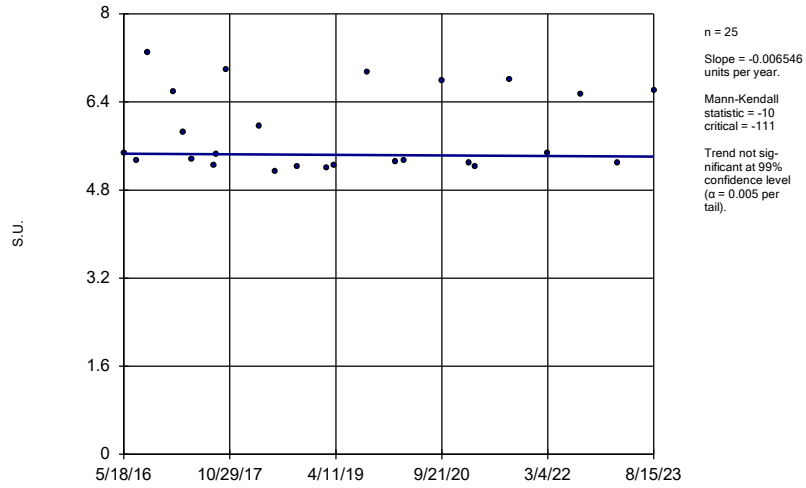
WGWA-4 (bg)



Constituent: pH, Field Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

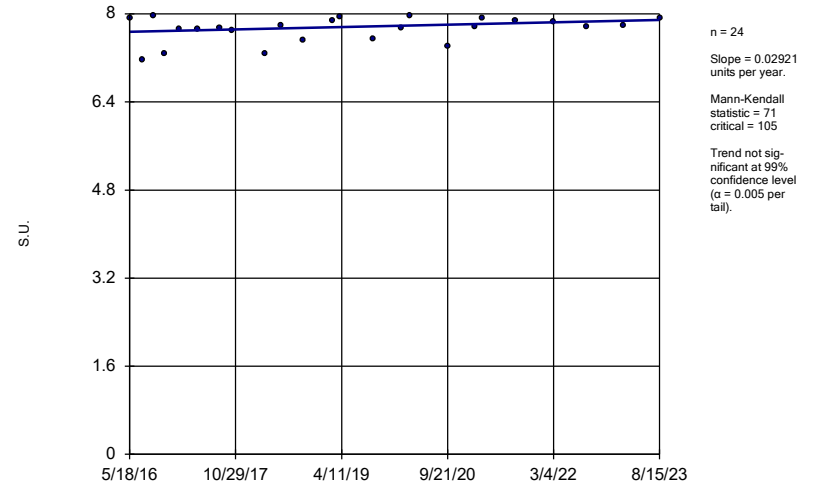
WGWA-5 (bg)



Constituent: pH, Field Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

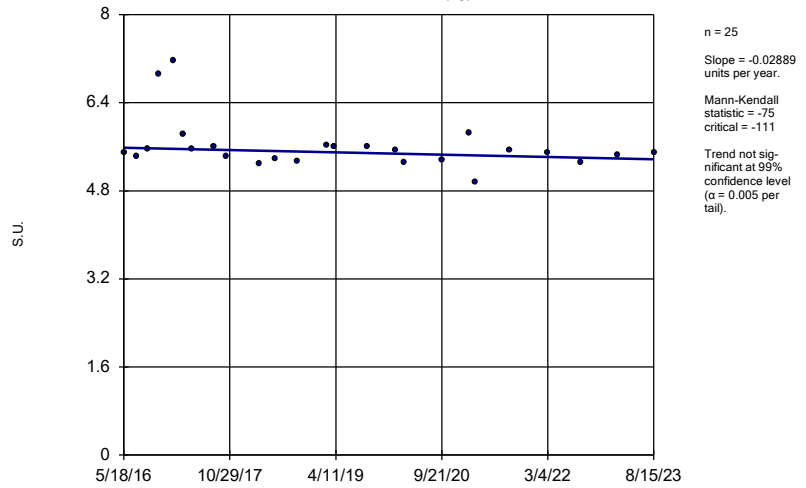
WGWA-6 (bg)



Constituent: pH, Field Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

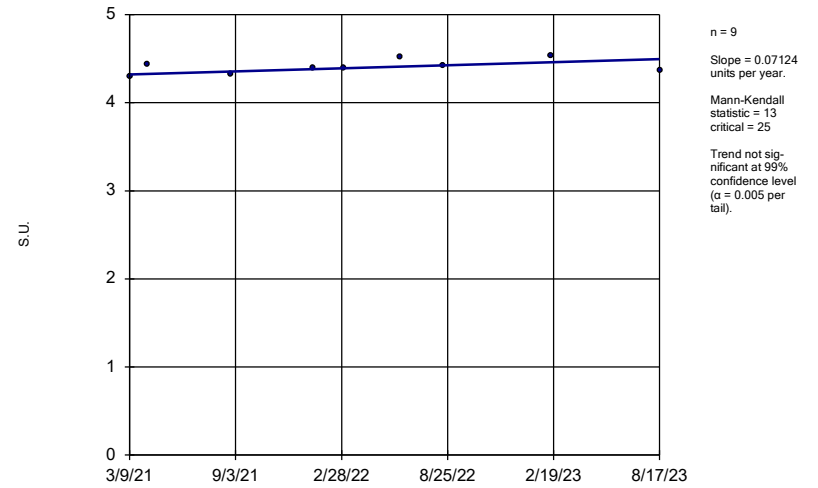
WGWA-7 (bg)



Constituent: pH, Field Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

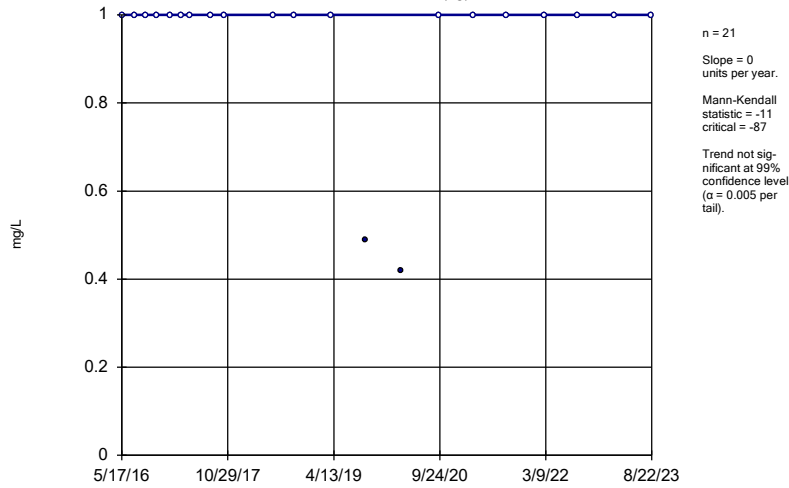
WGWC-24



Constituent: pH, Field Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

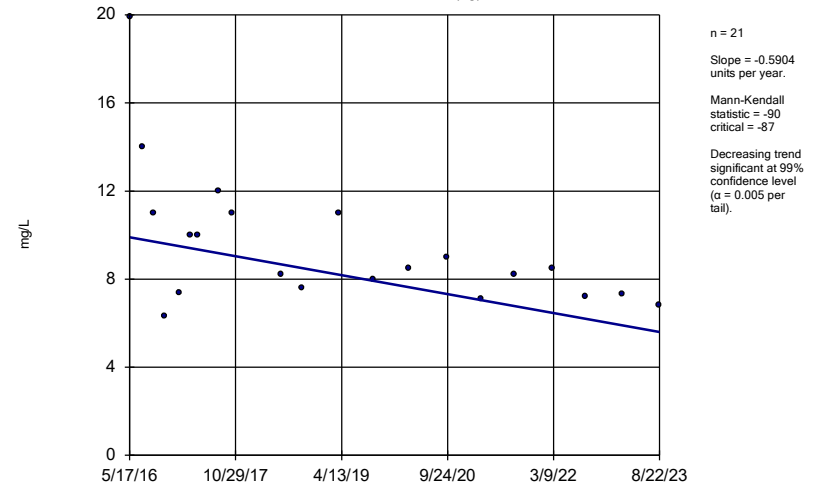
WGWA-1 (bg)



Constituent: Sulfate as SO4 Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

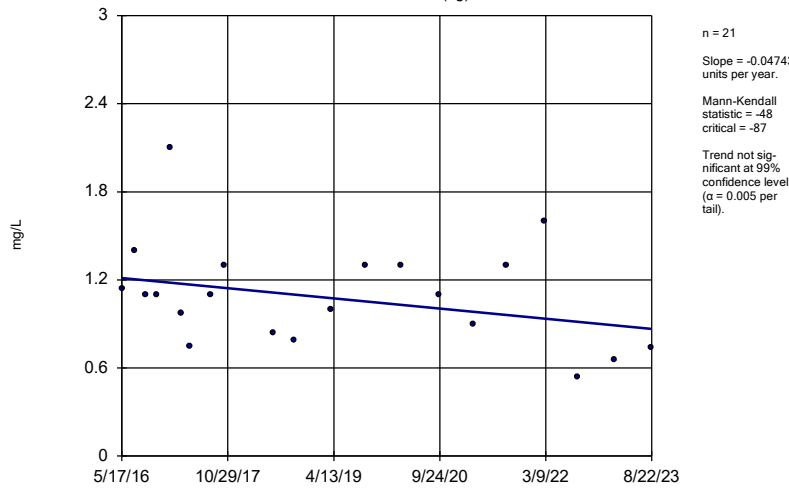
WGWA-18 (bg)



Constituent: Sulfate as SO4 Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

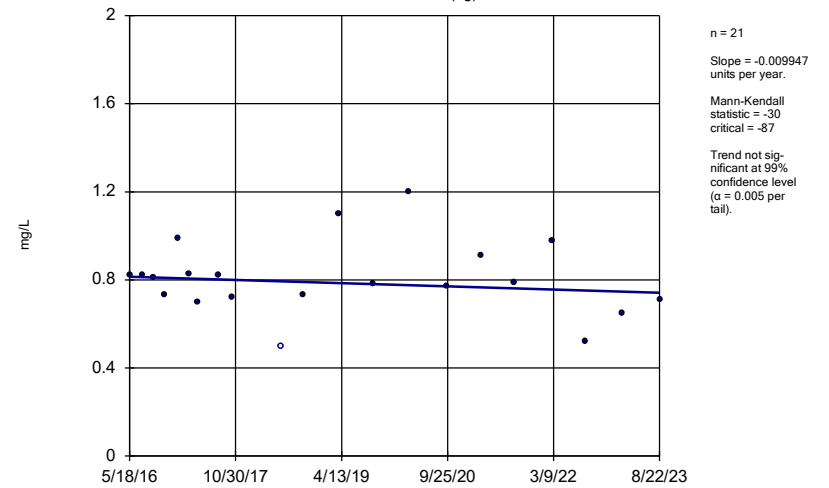
WGWA-2 (bg)



Constituent: Sulfate as SO4 Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

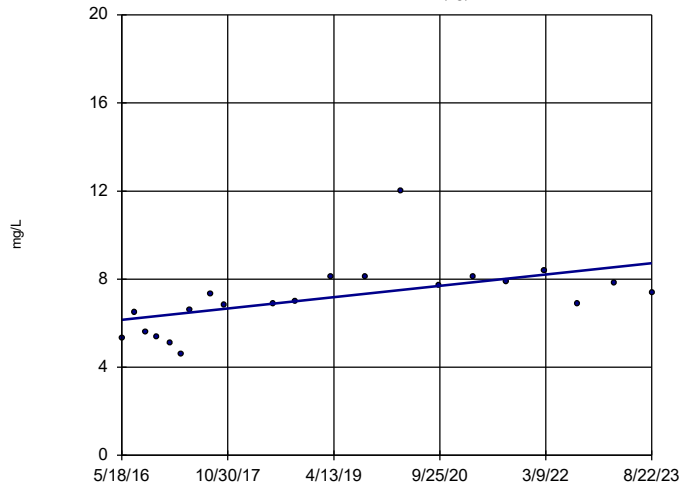
WGWA-3 (bg)



Constituent: Sulfate as SO4 Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-4 (bg)

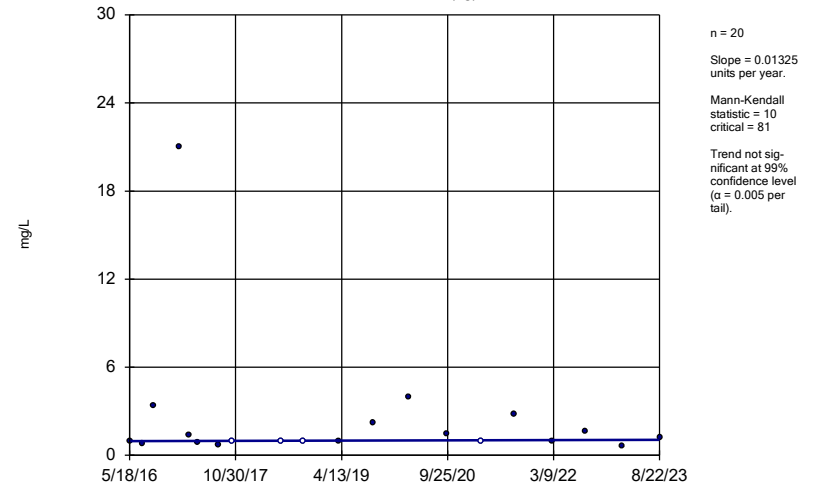


Constituent: Sulfate as SO4 Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

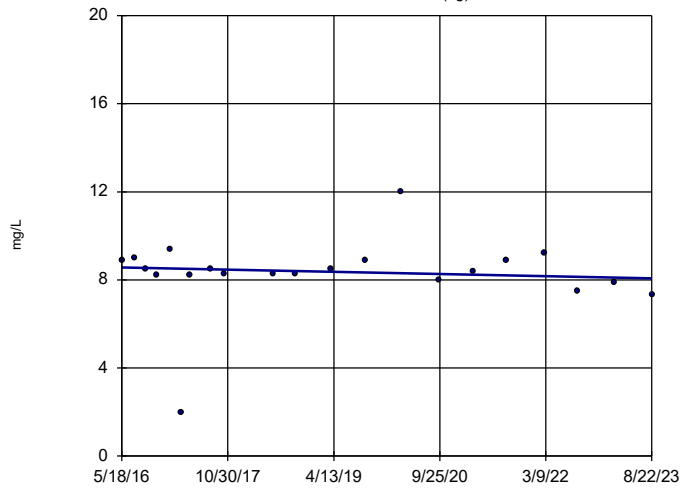
WGWA-5 (bg)



Constituent: Sulfate as SO4 Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-6 (bg)

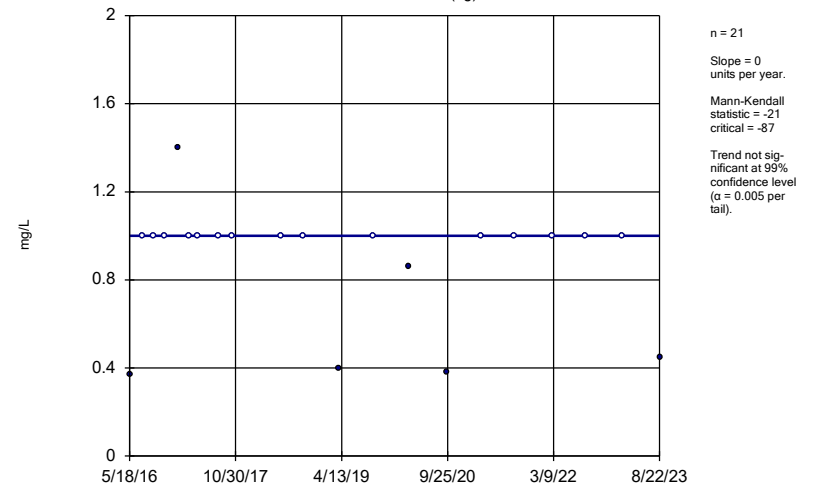


Constituent: Sulfate as SO4 Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

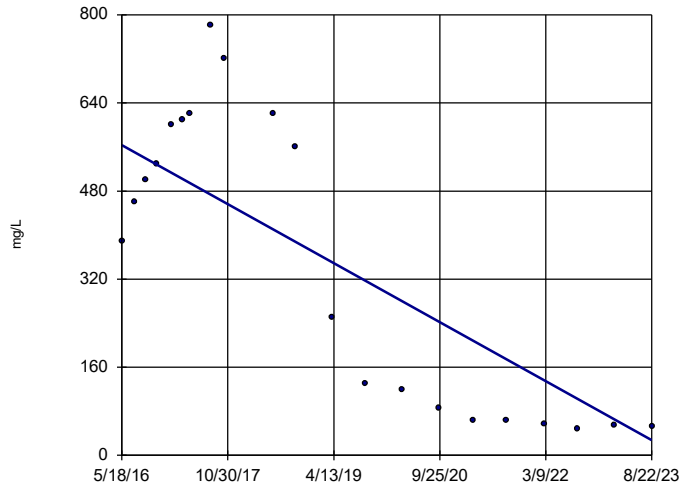
WGWA-7 (bg)



Constituent: Sulfate as SO4 Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-16

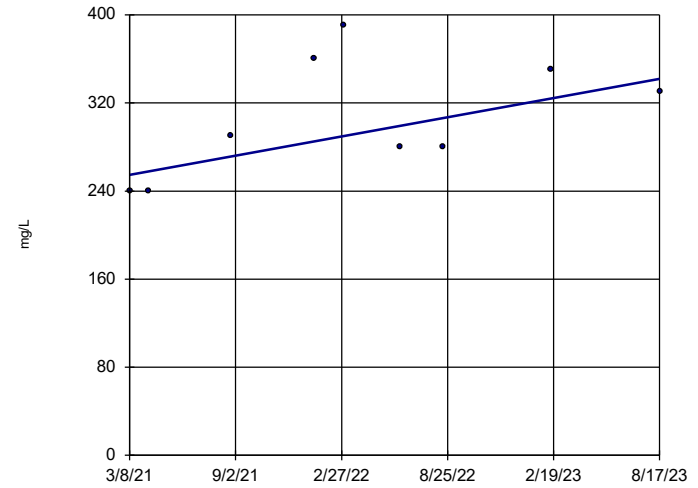


n = 21
 Slope = -73.79
 units per year.
 Mann-Kendall
 statistic = -115
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-20

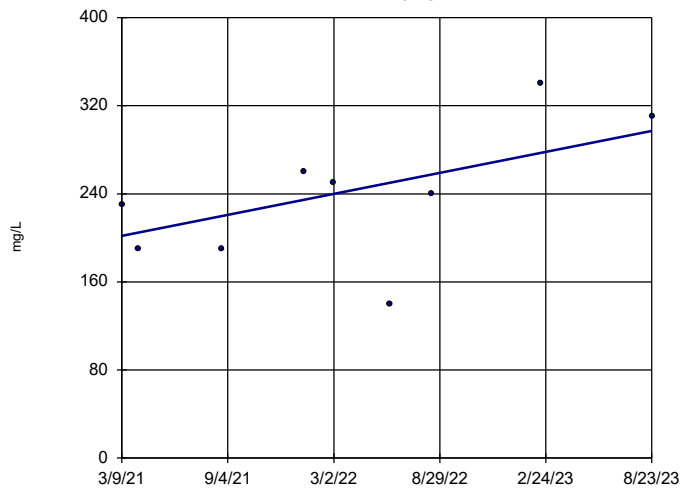


n = 9
 Slope = 35.59
 units per year.
 Mann-Kendall
 statistic = 12
 critical = 25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-21

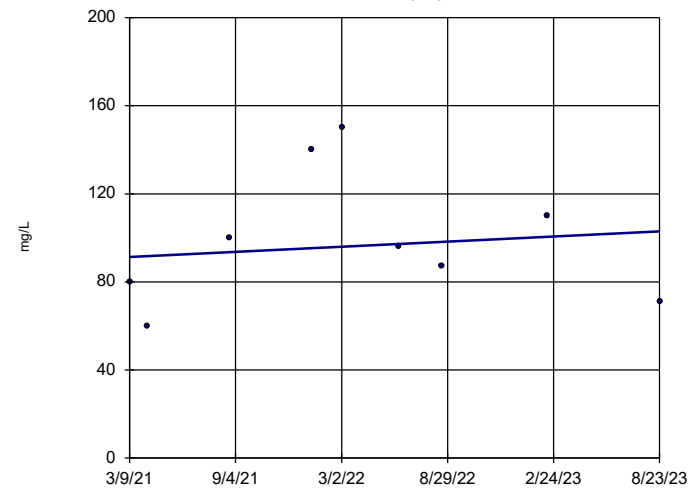


n = 9
 Slope = 38.75
 units per year.
 Mann-Kendall
 statistic = 13
 critical = 25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-22

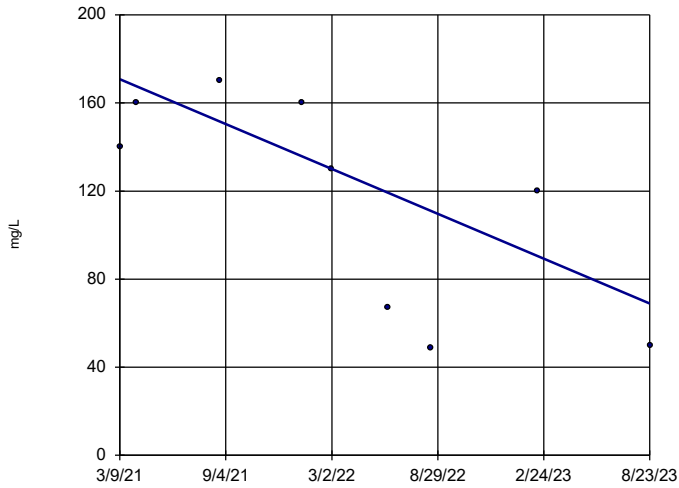


n = 9
 Slope = 4.735
 units per year.
 Mann-Kendall
 statistic = 2
 critical = 25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-24

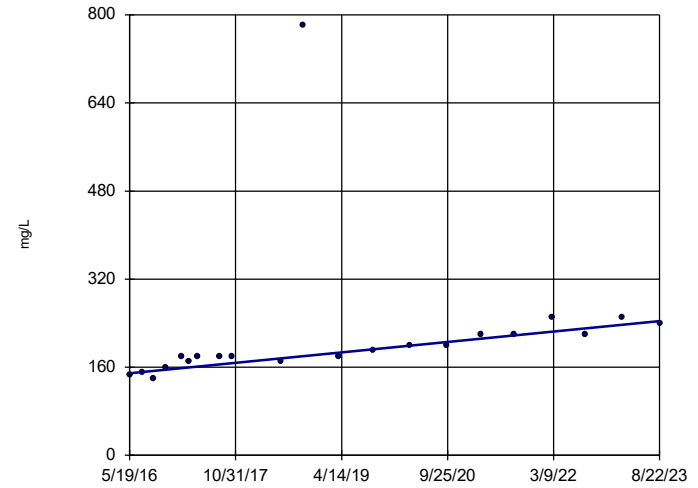


n = 9
 Slope = -41.44 units per year.
 Mann-Kendall statistic = -21
 critical = -25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-8

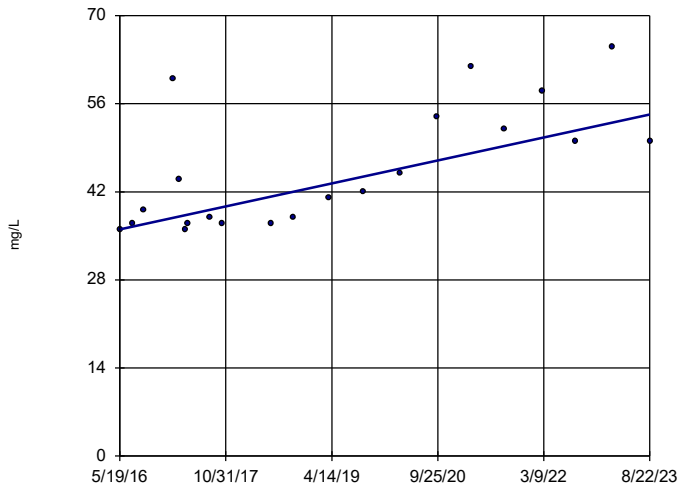


n = 21
 Slope = 13.01 units per year.
 Mann-Kendall statistic = 154
 critical = 87
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-9



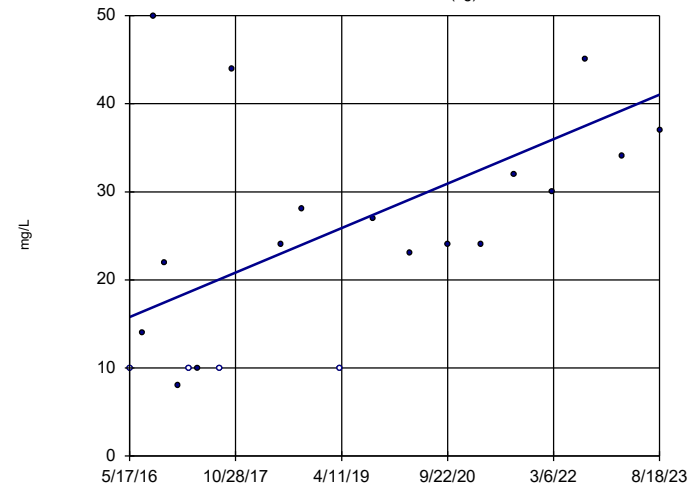
n = 21
 Slope = 2.516 units per year.
 Mann-Kendall statistic = 114
 critical = 87
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-1 (bg)

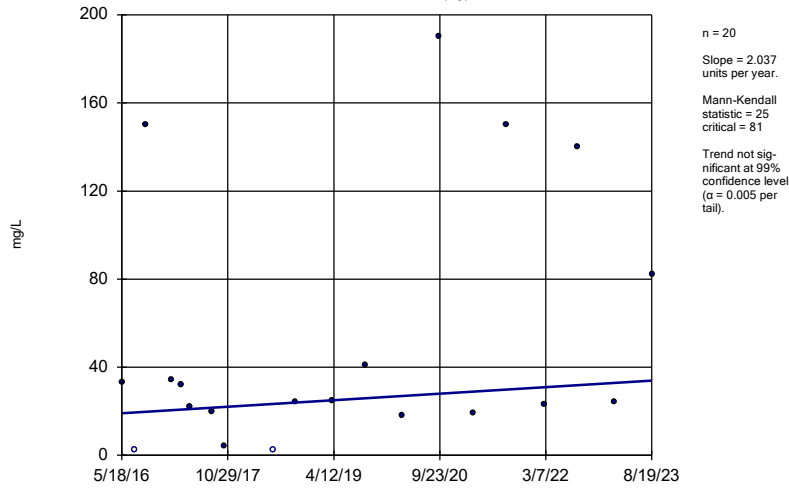


n = 21
 Slope = 3.478 units per year.
 Mann-Kendall statistic = 91
 critical = 87
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

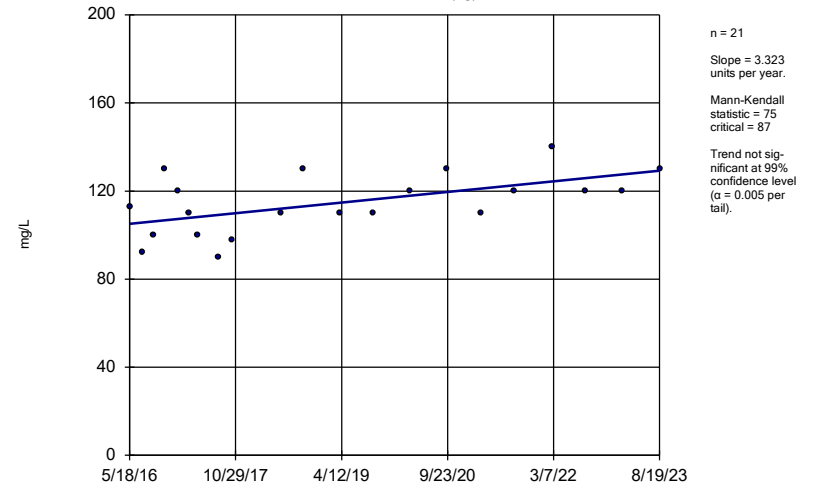
WGWA-5 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

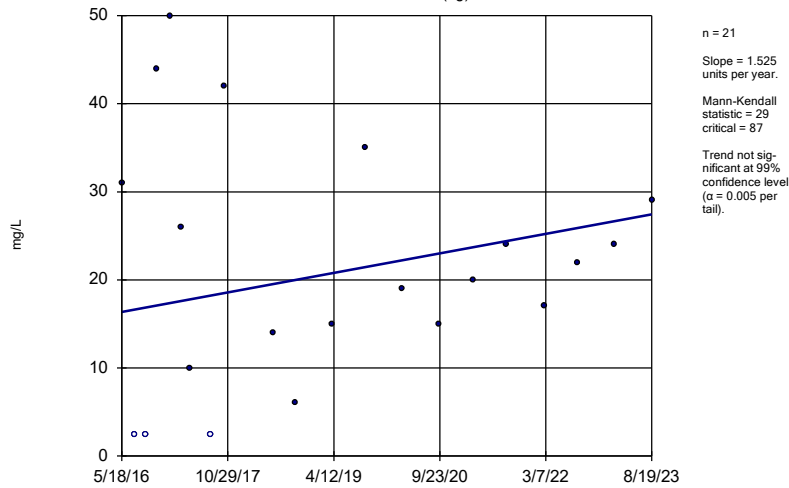
WGWA-6 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

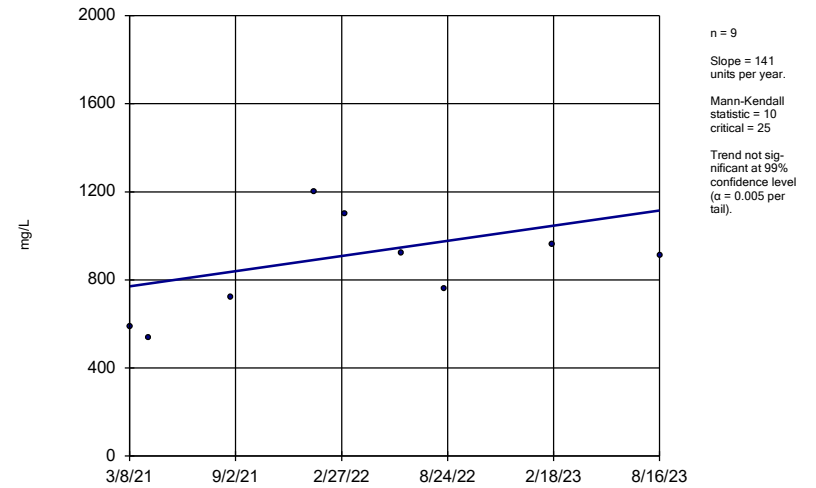
WGWA-7 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

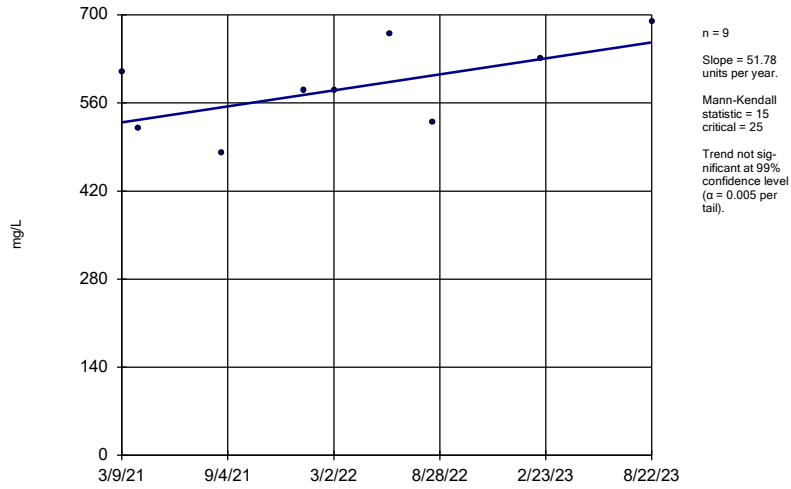
WGWC-20



Constituent: Total Dissolved Solids [TDS] Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

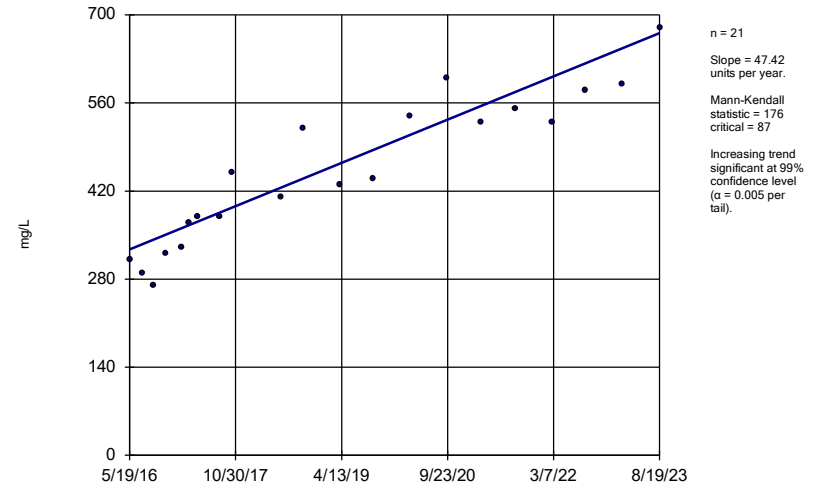
WGWC-21



Constituent: Total Dissolved Solids [TDS] Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-8



Constituent: Total Dissolved Solids [TDS] Analysis Run 9/29/2023 9:27 AM View: Appendix III Trend Test
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 10/13/2023, 10:41 AM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</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	n/a	151	98.01	n/a	n/a	0.0004328	NP Inter(NDs)
Arsenic (mg/L)	0.0014	n/a	n/a	n/a	191	82.72	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.062	n/a	n/a	n/a	191	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0025	n/a	n/a	n/a	191	94.24	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0025	n/a	n/a	n/a	175	100	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0063	n/a	n/a	n/a	191	94.76	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.013	n/a	n/a	n/a	190	46.84	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	11.4	n/a	n/a	n/a	188	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride, total (mg/L)	0.284	n/a	n/a	n/a	199	45.23	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	175	89.14	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.009	n/a	n/a	n/a	181	51.93	n/a	n/a	NaN	NP Inter(NDs)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	159	91.19	n/a	n/a	0.0002871	NP Inter(NDs)
Molybdenum (mg/L)	0.015	n/a	n/a	n/a	190	91.58	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	191	95.29	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	191	93.19	n/a	n/a	NaN	NP Inter(NDs)

FIGURE G.

WANSLEY AP GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background	GWPS
Antimony, Total (mg/L)	0.006		0.0022	0.006
Arsenic, Total (mg/L)	0.01		0.0014	0.01
Barium, Total (mg/L)	2		0.062	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0063	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.013	0.013
Combined Radium, Total (pCi/L)	5		11.4	11.4
Fluoride, Total (mg/L)	4		0.28	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.009	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

Highlighted cells indicate background is higher than established limit.

FIGURE H.

Appendix IV Confidence Intervals - Significant Results

Plant Wansley Data: Wansley Ash Pond Printed 10/12/2023, 4:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	WGWC-20	0.01145	0.007975	0.004	Yes	7	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-24	0.01385	0.004267	0.004	Yes	7	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-24	0.1202	0.02782	0.013	Yes	7	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.05615	0.0491	0.04	Yes	24	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	9	0	None	No	0.002	NP (normality)

Appendix IV Confidence Intervals - All Results

Plant Wansley Data: Wansley Ash Pond Printed 10/12/2023, 4:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-11	0.002	0.00053	0.006	No	19	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	19	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-19	0.002	0.00058	0.006	No	19	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-20	0.002	0.00066	0.006	No	7	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	WGWC-21	0.002	0.00053	0.006	No	7	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	WGWC-22	0.001117	0.0005663	0.006	No	7	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Antimony (mg/L)	WGWC-23	0.001973	0.001113	0.006	No	7	42.86	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-8	0.0079	0.00064	0.006	No	19	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.0043	0.0011	0.006	No	19	63.16	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	24	79.17	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	24	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	24	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00048	0.01	No	24	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0014	0.00095	0.01	No	24	70.83	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.00196	0.001111	0.01	No	24	8.333	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0013	0.001	0.01	No	24	58.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-17	0.001	0.00075	0.01	No	24	58.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-20	0.001	0.00031	0.01	No	7	42.86	None	No	0.008	NP (normality)
Arsenic (mg/L)	WGWC-21	0.0007404	0.0002876	0.01	No	7	28.57	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-22	0.001	0.00029	0.01	No	7	71.43	Kaplan-Meier	No	0.008	NP (NDs)
Arsenic (mg/L)	WGWC-24	0.0033	0.00028	0.01	No	7	28.57	None	No	0.008	NP (selected)
Arsenic (mg/L)	WGWC-8	0.0009562	0.0006277	0.01	No	24	45.83	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	24	87.5	None	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.04014	0.03439	2	No	24	0	None	ln(x)	0.01	Param.
Barium (mg/L)	WGWC-11	0.04102	0.0334	2	No	24	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-12	0.019	0.015	2	No	24	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-13	0.05401	0.04483	2	No	24	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04216	0.02997	2	No	24	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	WGWC-15	0.02546	0.02125	2	No	24	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.05407	0.03888	2	No	24	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-17	0.018	0.011	2	No	24	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.01	0.0013	2	No	24	33.33	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-20	0.01	0.00091	2	No	7	85.71	None	No	0.008	NP (NDs)
Barium (mg/L)	WGWC-21	0.008533	0.004181	2	No	7	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-22	0.03894	0.02135	2	No	7	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-23	0.01001	0.006329	2	No	7	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-24	0.04454	0.02804	2	No	7	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-25	0.4202	0.2484	2	No	7	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-8	0.01	0.0011	2	No	24	37.5	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.01	0.00092	2	No	24	45.83	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00026	0.004	No	24	66.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	24	95.83	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-20	0.01145	0.007975	0.004	Yes	7	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-21	0.0025	0.00021	0.004	No	7	71.43	None	No	0.008	NP (NDs)
Beryllium (mg/L)	WGWC-22	0.0006659	0.0005369	0.004	No	7	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-23	0.001287	0.0008387	0.004	No	7	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-24	0.01385	0.004267	0.004	Yes	7	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-25	0.0025	0.0002	0.004	No	7	28.57	None	No	0.008	NP (normality)
Beryllium (mg/L)	WGWC-8	0.00218	0.001674	0.004	No	24	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	24	37.5	None	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No	22	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.0025	0.00047	0.005	No	22	36.36	None	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-20	0.0025	0.00019	0.005	No	7	57.14	None	No	0.008	NP (NDs)
Cadmium (mg/L)	WGWC-22	0.0025	0.00009	0.005	No	7	57.14	None	No	0.008	NP (NDs)
Cadmium (mg/L)	WGWC-24	0.0005782	0.0001147	0.005	No	7	0	None	No	0.01	Param.
Cadmium (mg/L)	WGWC-25	0.0025	0.0001	0.005	No	7	71.43	None	No	0.008	NP (NDs)
Cadmium (mg/L)	WGWC-8	0.0025	0.00065	0.005	No	22	90.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-10	0.002267	0.001583	0.1	No	24	12.5	None	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.002	0.0017	0.1	No	24	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	24	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	24	95.83	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	24	95.83	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-21	0.002	0.0015	0.1	No	7	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	24	95.83	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001371	0.0007391	0.013	No	24	8.333	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	24	41.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.0009382	0.0004252	0.013	No	24	4.167	None	ln(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.0008	0.013	No	24	75	None	No	0.01	NP (NDs)

Appendix IV Confidence Intervals

Plant Wansley Data: Wansley Ash Pond Printed 10/12/2023, 4:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	WGWC-14A	0.00854	0.004306	0.013	No	24	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	24	95.83	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.005398	0.0008205	0.013	No	24	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-17	0.001125	0.0005141	0.013	No	24	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00025	0.013	No	24	41.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-20	0.0025	0.00037	0.013	No	7	71.43	None	No	0.008	NP (NDs)
Cobalt (mg/L)	WGWC-21	0.0025	0.00032	0.013	No	7	28.57	None	No	0.008	NP (normality)
Cobalt (mg/L)	WGWC-22	0.0025	0.00025	0.013	No	7	57.14	None	No	0.008	NP (NDs)
Cobalt (mg/L)	WGWC-23	0.0025	0.00016	0.013	No	7	71.43	None	No	0.008	NP (NDs)
Cobalt (mg/L)	WGWC-24	0.1202	0.02782	0.013	Yes	7	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-25	0.006525	0.003564	0.013	No	7	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	WGWC-8	0.0025	0.00066	0.013	No	24	45.83	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	24	95.83	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4308	0.1848	11.4	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.5911	0.2232	11.4	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.5576	0.2175	11.4	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7394	0.428	11.4	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8119	0.5321	11.4	No	24	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.5828	0.2702	11.4	No	24	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.556	0.7546	11.4	No	24	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5292	0.1753	11.4	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.5331	0.2158	11.4	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-20	1.355	0.5663	11.4	No	7	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-21	2.382	0.5939	11.4	No	7	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-22	7.187	3.159	11.4	No	7	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-23	1.646	0.2627	11.4	No	7	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-24	1.533	0.7176	11.4	No	7	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-25	1.003	0.5003	11.4	No	7	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	2.239	1.507	11.4	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4015	0.1658	11.4	No	24	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-10	0.1651	0.1217	4	No	25	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-11	0.1	0.045	4	No	25	52	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-12	0.09676	0.07296	4	No	25	16	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-13	0.2732	0.1951	4	No	25	4	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-14A	0.1	0.048	4	No	25	64	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-15	0.8523	0.7644	4	No	25	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-16	0.15	0.067	4	No	25	8	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-17	0.1244	0.07932	4	No	25	4	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-19	0.3708	0.3252	4	No	25	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-20	2.203	1.752	4	No	9	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-21	1.938	1.706	4	No	9	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-22	1.4	0.31	4	No	9	0	None	No	0.002	NP (normality)
Fluoride, total (mg/L)	WGWC-23	0.07957	0.0361	4	No	9	0	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-24	1.081	0.383	4	No	9	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-25	0.1	0.028	4	No	9	44.44	None	No	0.002	NP (normality)
Fluoride, total (mg/L)	WGWC-8	0.3171	0.1937	4	No	25	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-9	1.428	1.119	4	No	25	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00025	0.015	No	22	54.55	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	22	81.82	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-12	0.001	0.00033	0.015	No	22	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00038	0.015	No	22	36.36	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00031	0.015	No	22	59.09	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.015	No	22	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	22	90.91	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	22	90.91	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-19	0.001	0.0003	0.015	No	22	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-22	0.001	0.00022	0.015	No	7	28.57	None	No	0.008	NP (normality)
Lead (mg/L)	WGWC-23	0.0046	0.001	0.015	No	7	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	WGWC-24	0.001013	0.0002496	0.015	No	7	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-8	0.001	0.00029	0.015	No	22	63.64	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	22	95.45	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01251	0.006117	0.04	No	24	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	24	83.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.0077	0.0062	0.04	No	24	4.167	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-13	0.005	0.0037	0.04	No	24	70.83	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.04	No	24	62.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.007065	0.00531	0.04	No	24	8.333	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.009431	0.005761	0.04	No	24	8.333	None	No	0.01	Param.

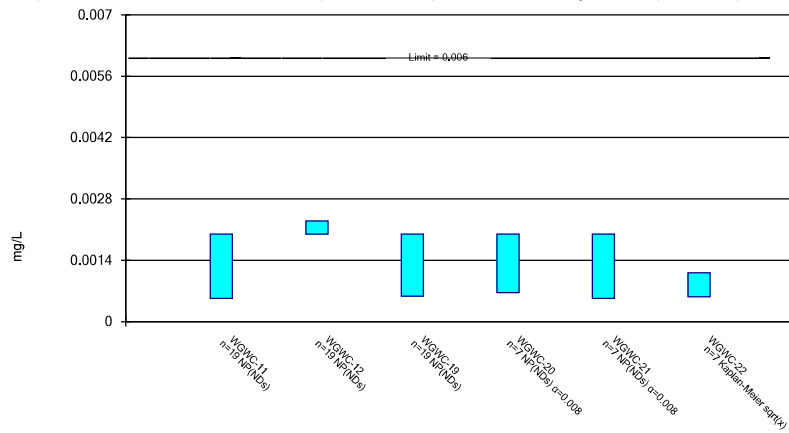
Appendix IV Confidence Intervals

Plant Wansley Data: Wansley Ash Pond Printed 10/12/2023, 4:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	WGWC-17	0.0058	0.0044	0.04	No	24	4.167	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-19	0.05615	0.0491	0.04	Yes	24	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	9	0	None	No	0.002	NP (normality)
Lithium (mg/L)	WGWC-21	0.05655	0.03034	0.04	No	9	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-22	0.011	0.0069	0.04	No	9	0	None	No	0.002	NP (normality)
Lithium (mg/L)	WGWC-23	0.005	0.0015	0.04	No	9	66.67	None	No	0.002	NP (NDs)
Lithium (mg/L)	WGWC-24	0.008529	0.004004	0.04	No	9	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-25	0.004501	0.003143	0.04	No	9	11.11	None	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.015	0.013	0.04	No	24	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03696	0.032	0.04	No	24	0	None	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.00013	0.002	No	20	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No	20	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00018	0.002	No	20	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No	20	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No	20	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000093	0.002	No	20	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No	20	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No	20	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No	20	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-20	0.00033	0.0002	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	WGWC-21	0.0002	0.0002	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	WGWC-22	0.0002	0.00018	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	WGWC-23	0.00022	0.0002	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	WGWC-24	0.00026	0.0002	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	WGWC-25	0.0019	0.0002	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No	20	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No	20	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	24	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No	24	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.0046	0.1	No	24	75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.002905	0.001507	0.1	No	24	12.5	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	24	95.83	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.005682	0.003107	0.1	No	24	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.00526	0.0023	0.1	No	24	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-19	0.0016	0.0012	0.1	No	24	29.17	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-20	0.015	0.00062	0.1	No	7	71.43	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	WGWC-21	0.0426	0.02997	0.1	No	7	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-22	0.015	0.00084	0.1	No	7	85.71	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	WGWC-9	0.0053	0.0028	0.1	No	24	0	None	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	24	95.83	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	24	95.83	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	24	95.83	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	24	95.83	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	24	95.83	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.009568	0.004653	0.05	No	24	4.167	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	24	95.83	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-20	0.0027	0.0014	0.05	No	7	14.29	None	No	0.008	NP (normality)
Selenium (mg/L)	WGWC-22	0.007448	0.003495	0.05	No	7	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-23	0.002597	0.001546	0.05	No	7	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-24	0.005	0.00077	0.05	No	7	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	WGWC-8	0.0038	0.0032	0.05	No	24	0	None	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-9	0.002887	0.002287	0.05	No	24	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	24	95.83	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	24	95.83	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00016	0.002	No	24	54.17	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-16	0.001	0.00017	0.002	No	24	50	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	24	95.83	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-22	0.001	0.00047	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Thallium (mg/L)	WGWC-24	0.000695	0.0003021	0.002	No	7	0	None	No	0.01	Param.

Parametric and Non-Parametric (NP) Confidence Interval

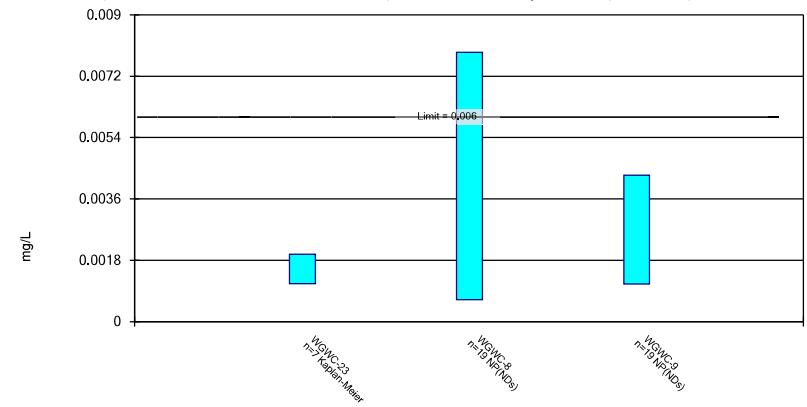
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

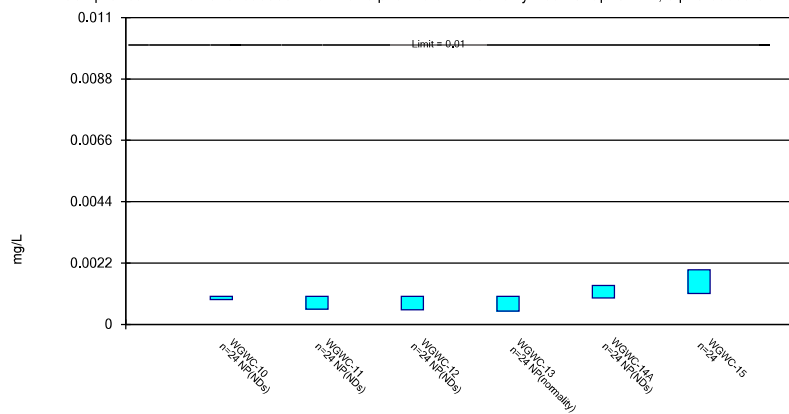
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

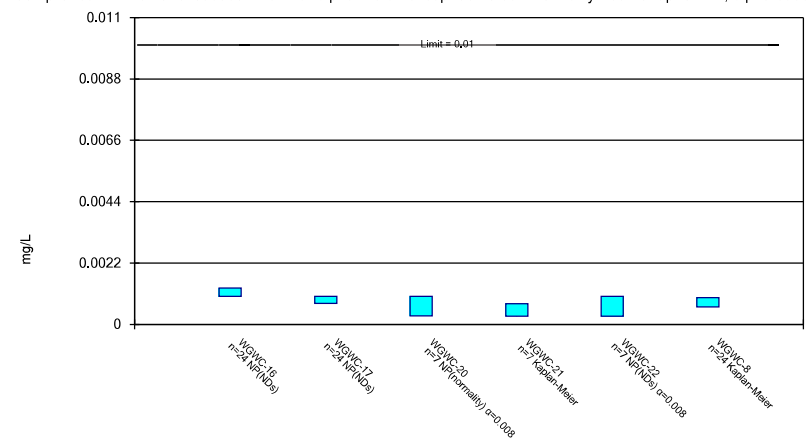
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

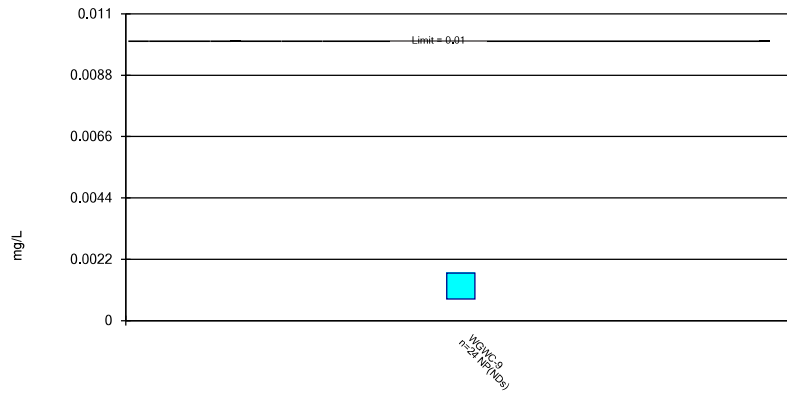
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Non-Parametric Confidence Interval

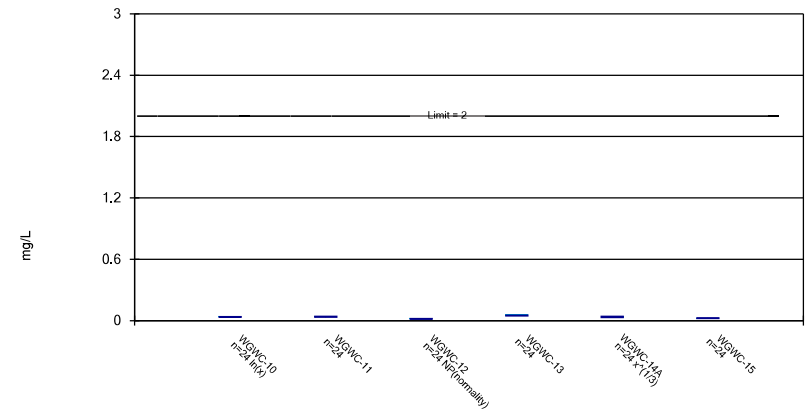
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

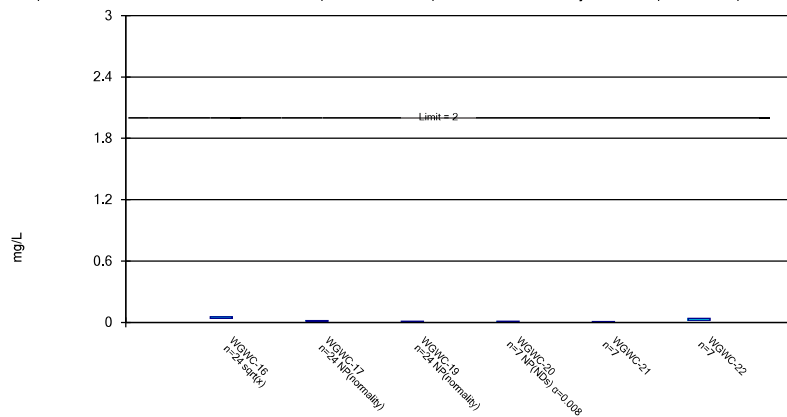
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

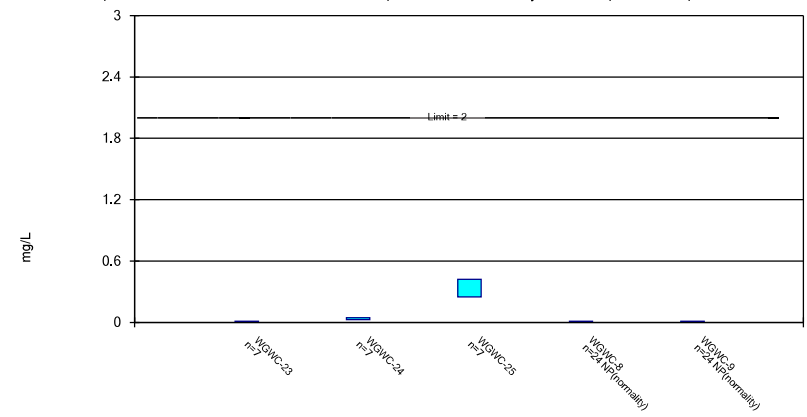
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

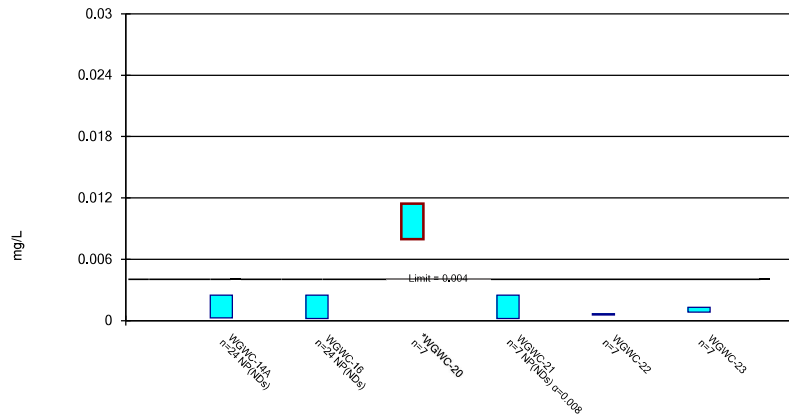
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

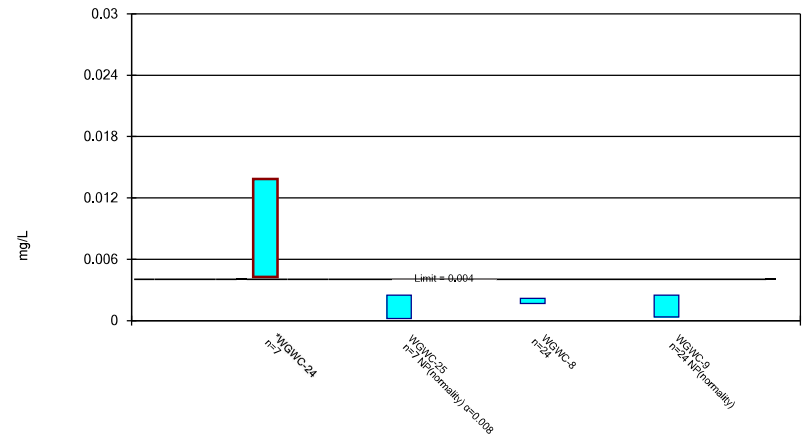
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

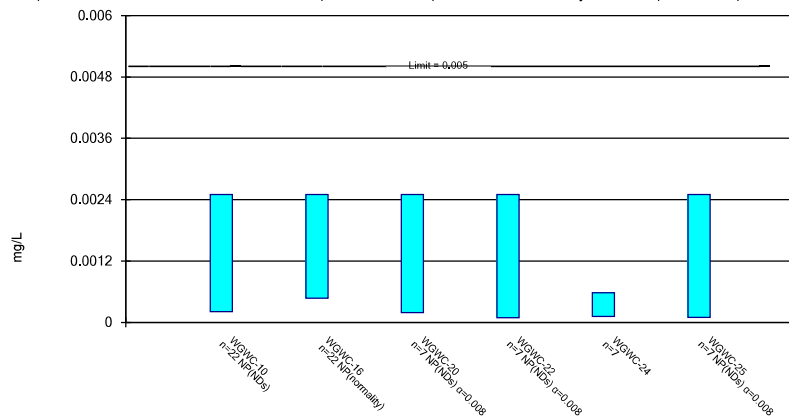
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

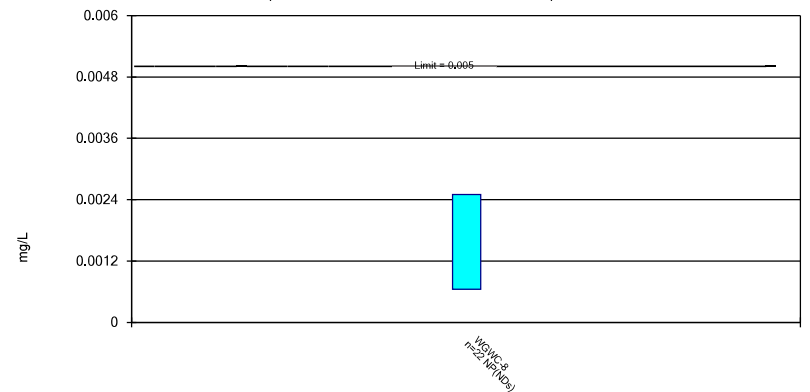
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Non-Parametric Confidence Interval

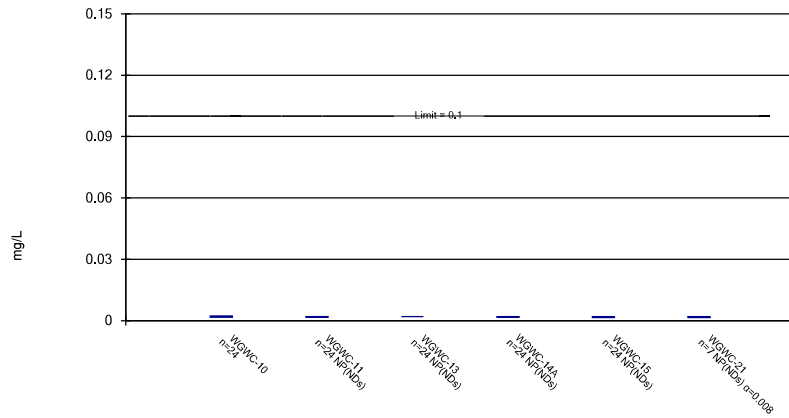
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

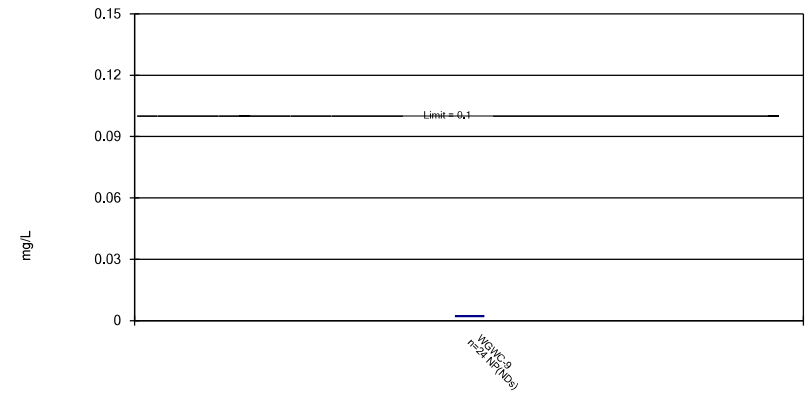
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Non-Parametric Confidence Interval

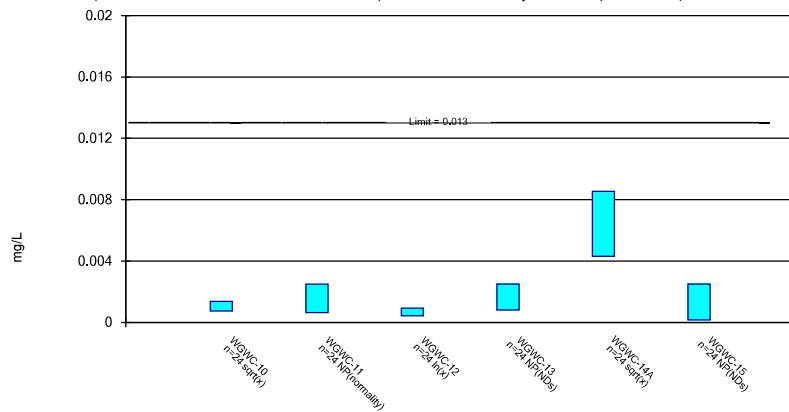
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

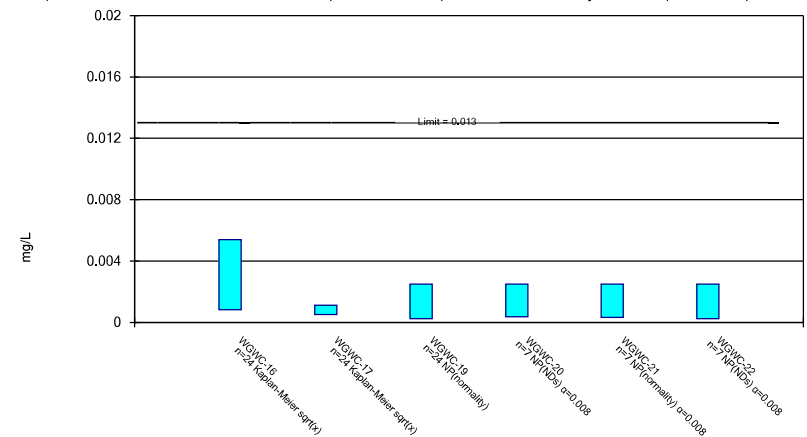
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

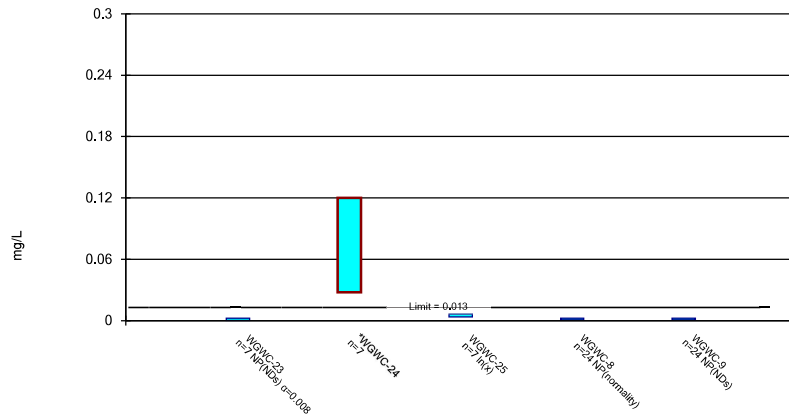
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

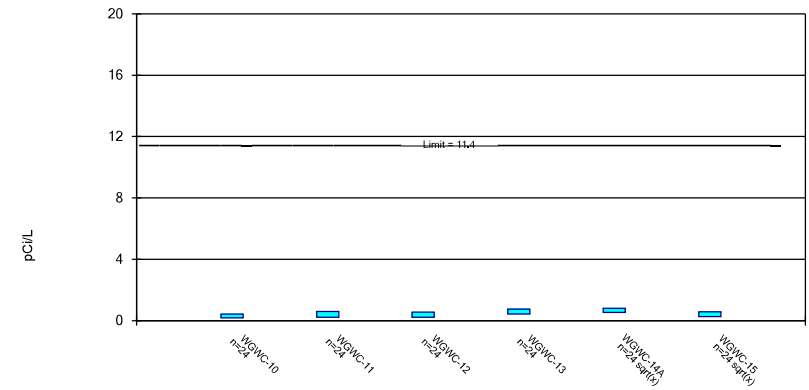
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric Confidence Interval

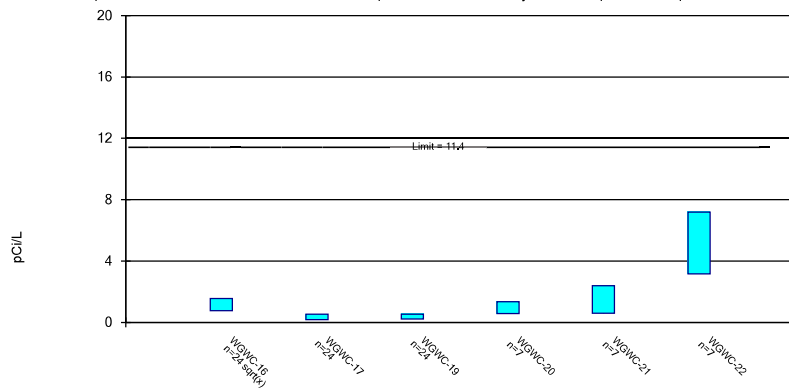
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric Confidence Interval

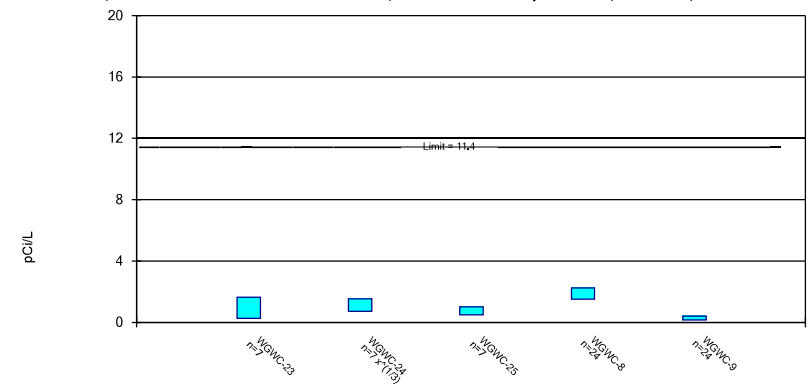
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric Confidence Interval

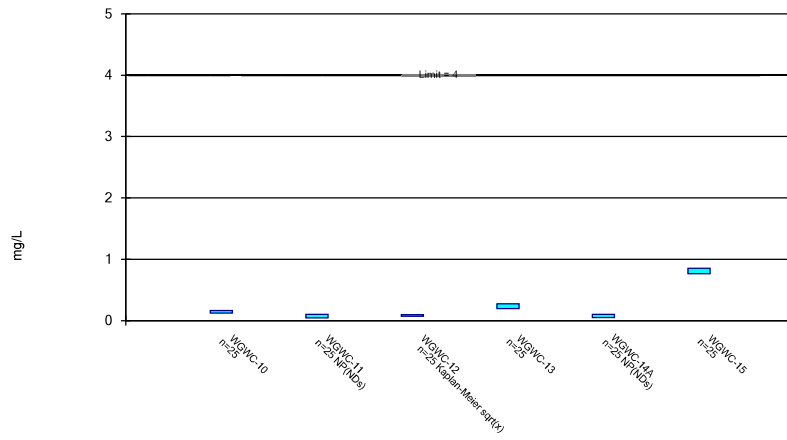
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

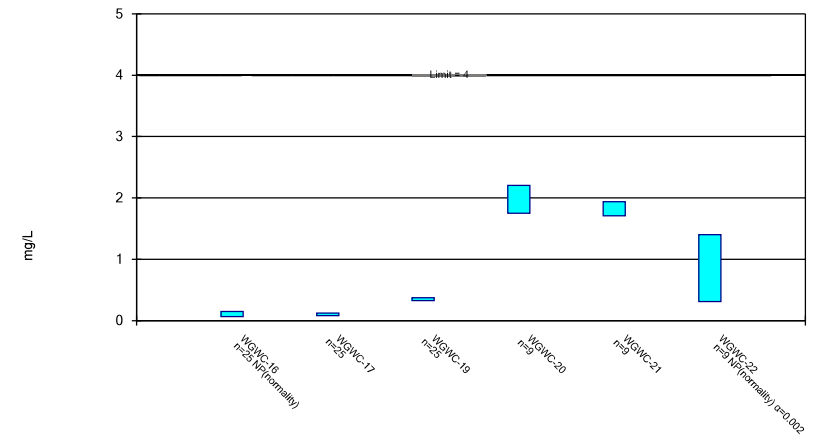
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

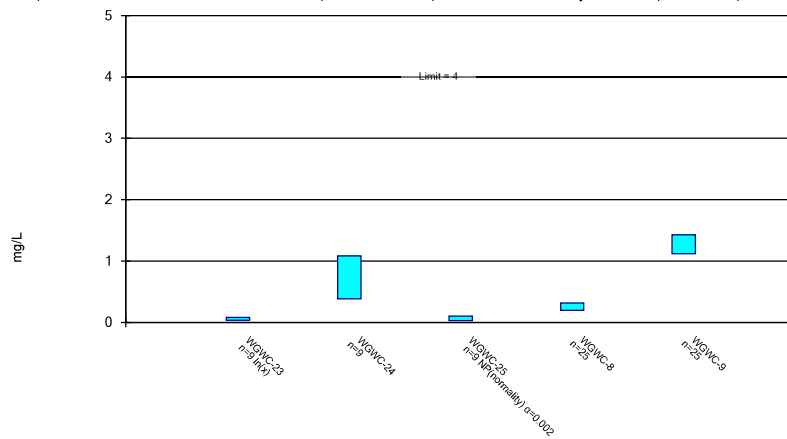
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

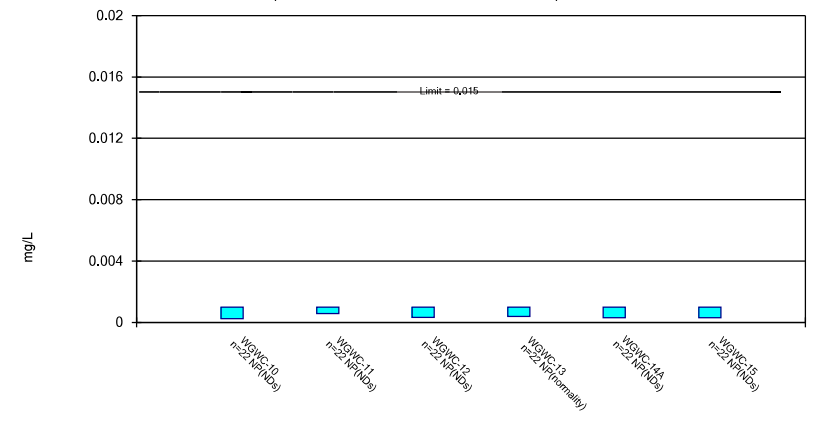
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Non-Parametric Confidence Interval

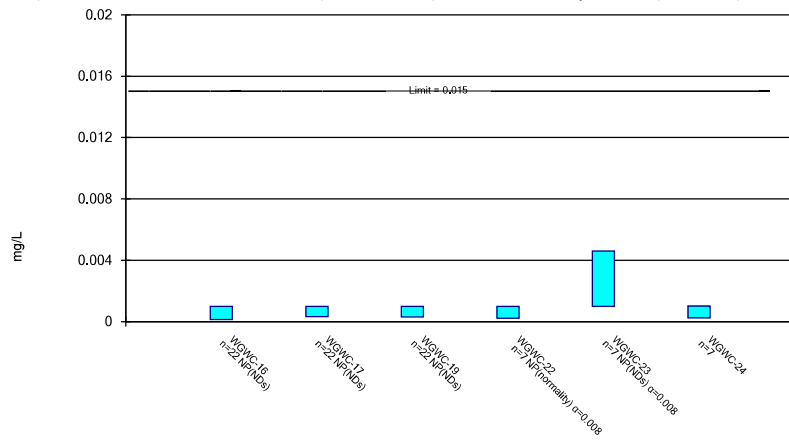
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 10/12/2023 4:42 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

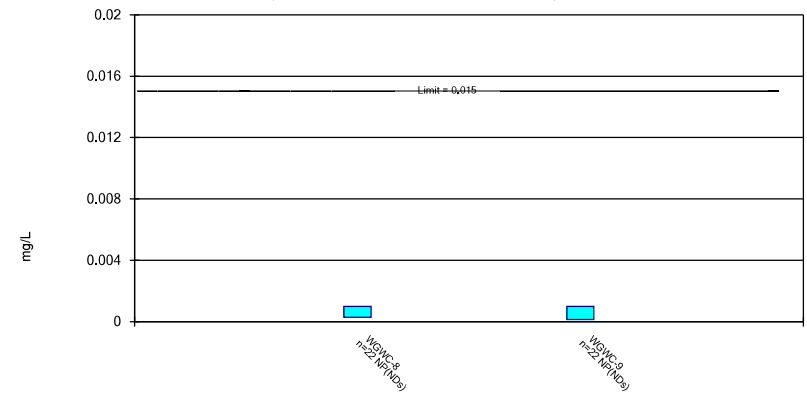
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 10/12/2023 4:43 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Non-Parametric Confidence Interval

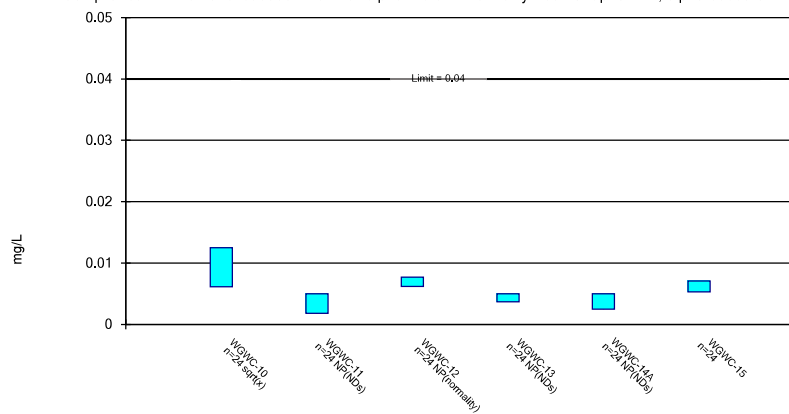
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 10/12/2023 4:43 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

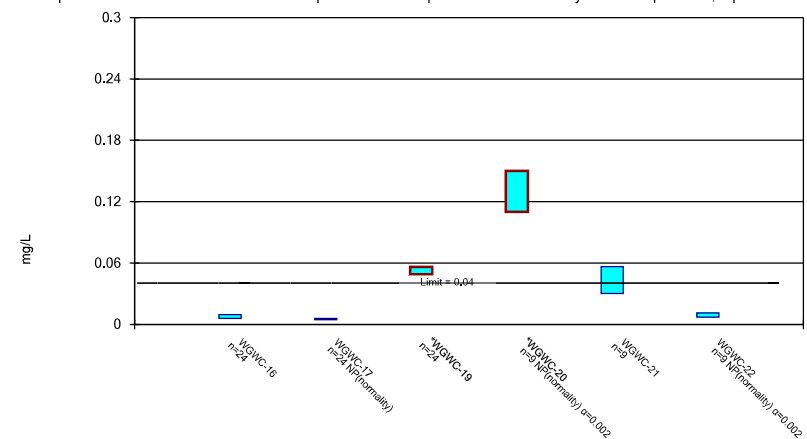
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/12/2023 4:43 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

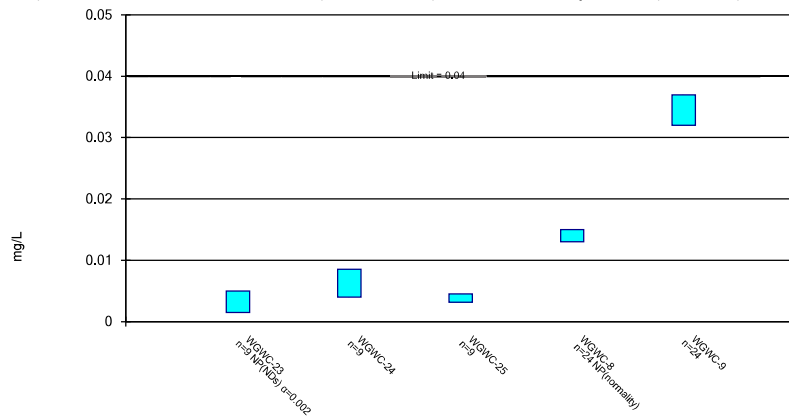
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/12/2023 4:43 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

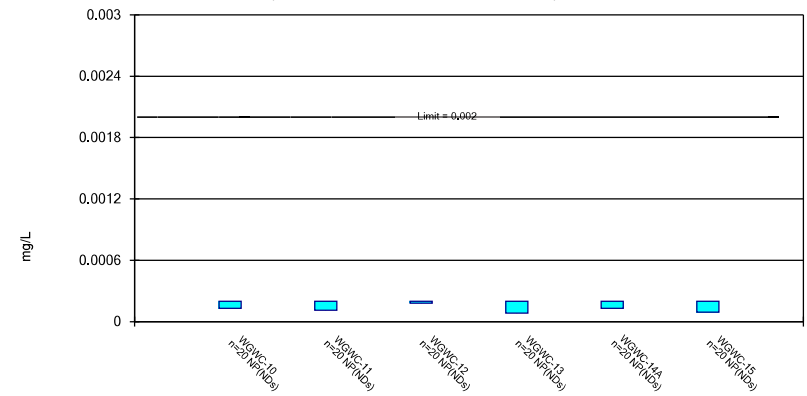
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/12/2023 4:43 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Non-Parametric Confidence Interval

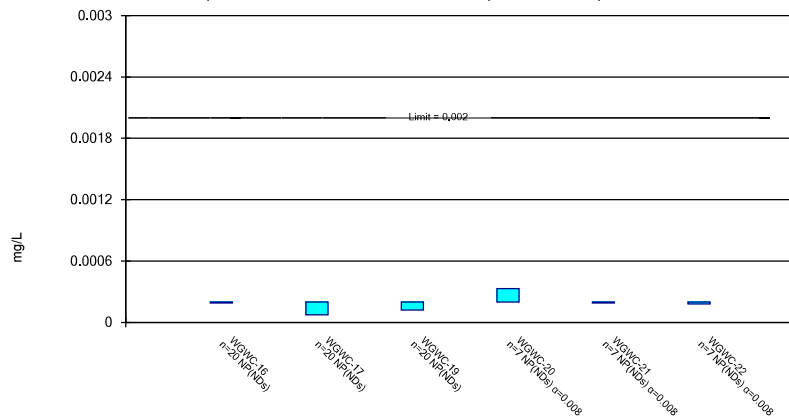
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 10/12/2023 4:43 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Non-Parametric Confidence Interval

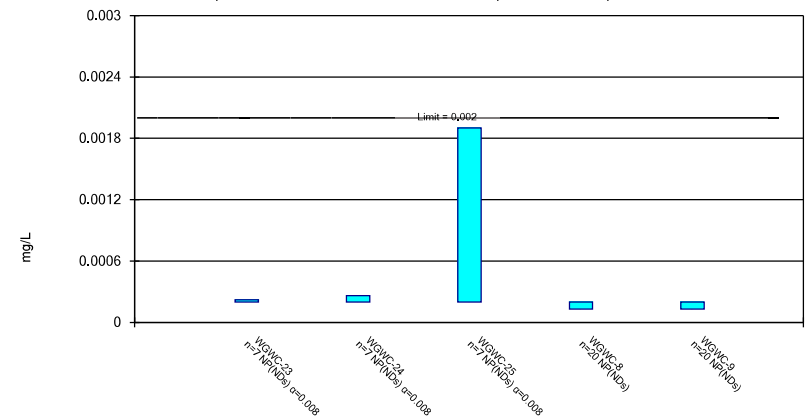
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 10/12/2023 4:43 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Non-Parametric Confidence Interval

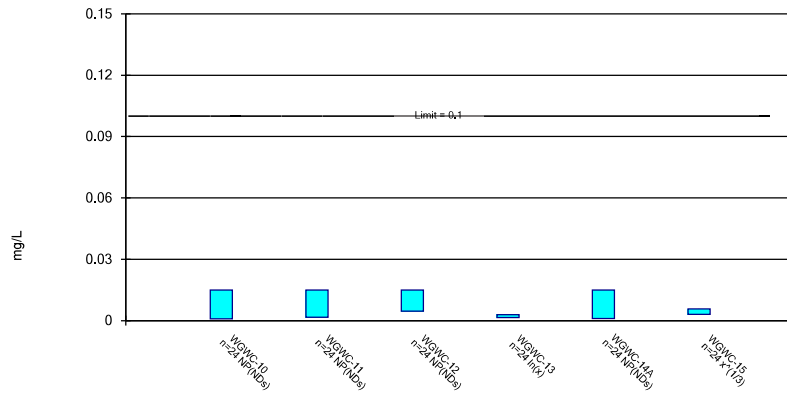
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 10/12/2023 4:43 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

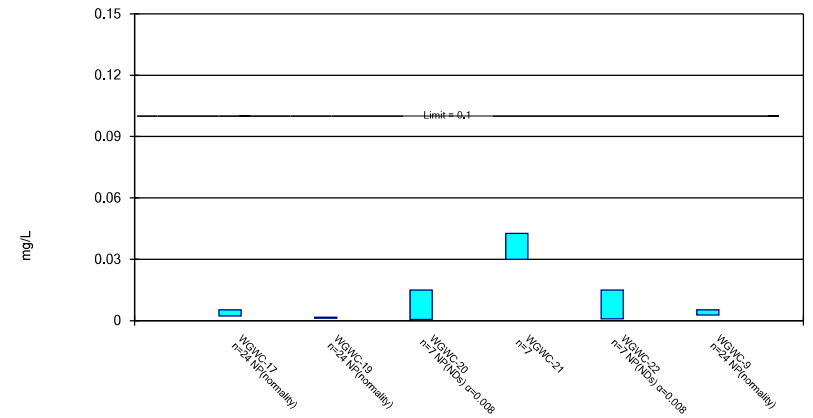
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/12/2023 4:43 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

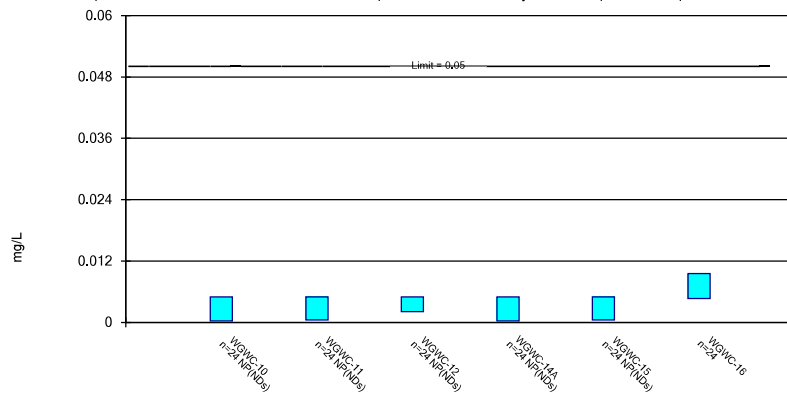
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/12/2023 4:43 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

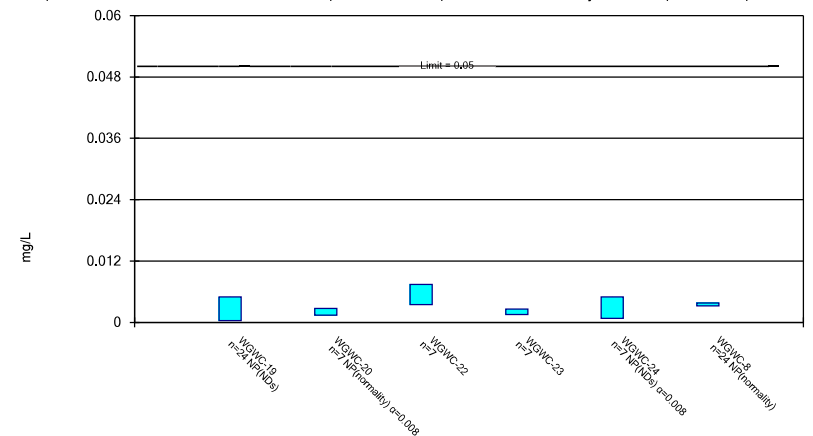
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/12/2023 4:43 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

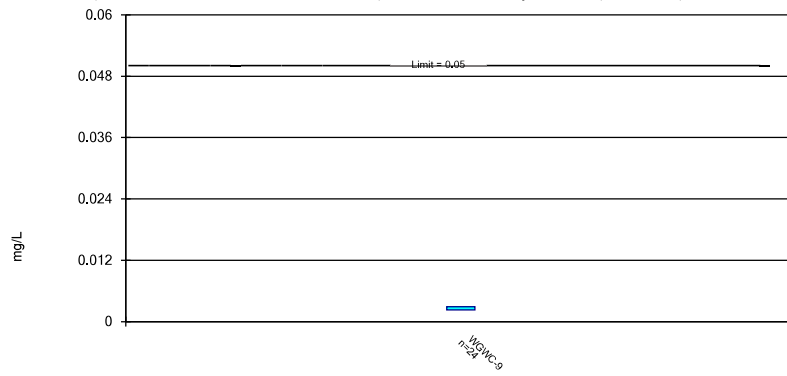
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/12/2023 4:43 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Parametric Confidence Interval

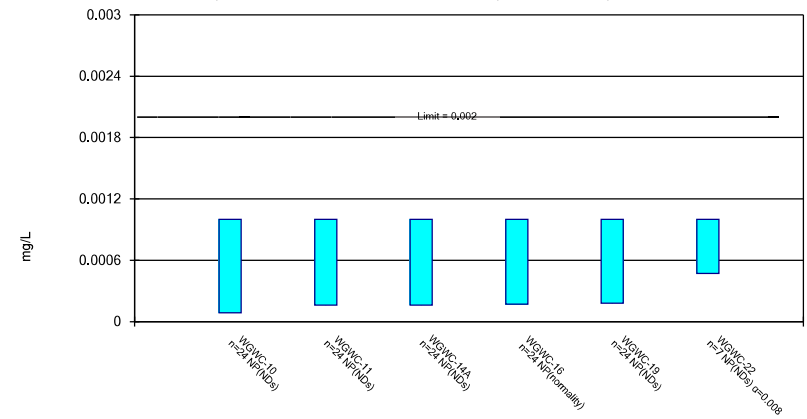
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/12/2023 4:43 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Non-Parametric Confidence Interval

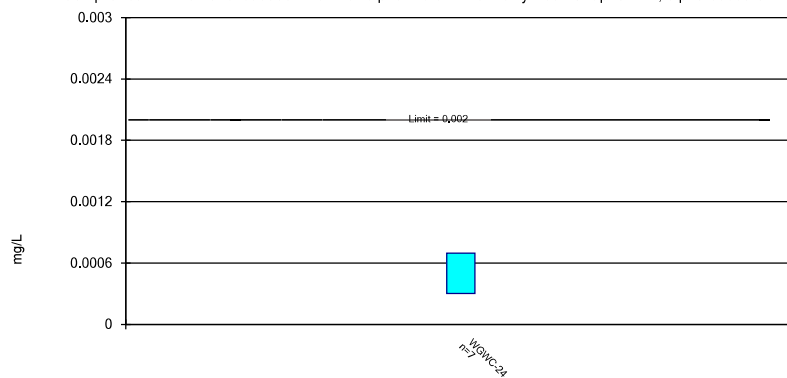
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Thallium Analysis Run 10/12/2023 4:43 PM View: Confidence Intervals
Plant Wansley 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: Thallium Analysis Run 10/12/2023 4:43 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-11	WGWC-12	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/19/2016	<0.002	<0.002				
7/20/2016	<0.002	<0.002				
9/14/2016	<0.002	<0.002				
11/11/2016	<0.002	<0.002	<0.002			
1/27/2017	<0.002	<0.002				
2/6/2017			<0.002			
3/15/2017	<0.002	<0.002	<0.002			
4/11/2017			<0.002			
4/26/2017	<0.002	<0.002	<0.002			
6/7/2017			<0.002			
7/11/2017			<0.002			
8/10/2017	<0.002	0.0023 (J)	<0.002			
3/29/2018	<0.002	<0.002	<0.002			
2/27/2019	<0.002	<0.002				
2/28/2019			<0.002			
2/5/2020	<0.002	<0.002				
2/7/2020			<0.002			
3/18/2020	<0.002	<0.002				
5/4/2020			<0.002			
2/3/2021	<0.002	<0.002	<0.002			
3/11/2021			<0.002			
3/12/2021	<0.002	<0.002				
8/25/2021	<0.002	<0.002				
8/26/2021			<0.002	<0.002	0.00076 (J)	<0.002
1/11/2022					<0.002	0.00078 (J)
1/12/2022				0.00066 (J)		
3/3/2022	<0.002		<0.002		0.00053 (J)	
3/4/2022		<0.002		0.0011 (J)		0.00082 (J)
6/6/2022					<0.002	
6/7/2022				<0.002		0.00054 (J)
8/16/2022	0.00053 (J)				0.00055 (J)	
8/17/2022			0.00058 (J)			
8/18/2022		<0.002		<0.002		
8/19/2022						<0.002
2/15/2023						0.0012 (J)
2/16/2023	<0.002	<0.002	<0.002	<0.002	<0.002	
8/15/2023				0.00069 (J)		
8/21/2023	<0.002	<0.002	<0.002		<0.002	<0.002
Mean	0.001923	0.002016	0.001925	0.001493	0.001406	0.001334
Std. Dev.	0.0003372	6.882E-05	0.0003258	0.0006482	0.0007448	0.0006519
Upper Lim.	0.002	0.0023	0.002	0.002	0.002	0.001117
Lower Lim.	0.00053	0.002	0.00058	0.00066	0.00053	0.0005663

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-23	WGWC-8	WGWC-9
5/19/2016		<0.002	<0.002
7/20/2016		<0.002	<0.002
9/14/2016			<0.002
9/15/2016		<0.002	
11/14/2016		<0.002	
2/6/2017		<0.002	
2/9/2017			<0.002
3/15/2017		<0.002	0.0011 (J)
4/11/2017			<0.002
4/26/2017		<0.002	<0.002
8/10/2017		<0.002	<0.002
3/29/2018		<0.002	<0.002
2/27/2019		<0.002	
2/28/2019			<0.002
2/5/2020			<0.002
2/7/2020		<0.002	
3/19/2020		<0.002	0.00041 (J)
2/3/2021		<0.002	
2/4/2021			0.00041 (J)
3/11/2021		<0.002	
3/12/2021			<0.002
8/26/2021	<0.002	<0.002	<0.002
1/11/2022	0.0012 (J)		
3/3/2022		<0.002	0.008
3/4/2022	0.0018 (J)		
6/6/2022	0.0013 (J)		
8/16/2022		0.011	
8/17/2022	<0.002		0.0043
2/15/2023	0.0022		0.00048 (J)
2/16/2023		0.00064 (J)	
8/18/2023		0.0079	
8/21/2023	<0.002		0.0011 (J)
Mean	0.001786	0.002713	0.002095
Std. Dev.	0.0003848	0.00245	0.001668
Upper Lim.	0.001973	0.0079	0.0043
Lower Lim.	0.001113	0.00064	0.0011

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001					0.00345
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						0.0031
7/20/2016	<0.001	<0.001	<0.001	<0.001		
9/14/2016	<0.001	<0.001	<0.001	<0.001		0.0024
11/10/2016				<0.001		0.0023
11/11/2016	<0.001	<0.001	<0.001			
1/24/2017						0.0019
1/27/2017		0.00047 (J)	<0.001	0.00066 (J)		
2/6/2017	<0.001					
2/8/2017					<0.001	
2/23/2017					<0.001	
3/14/2017						0.0016
3/15/2017	<0.001	<0.001	<0.001	<0.001		
3/17/2017					0.0006 (J)	
4/11/2017					0.0032	
4/25/2017						0.0019
4/26/2017	<0.001	<0.001	<0.001	<0.001	0.0019	
5/17/2017					0.0014	
6/7/2017					0.0021	
7/11/2017					0.00095 (J)	
8/9/2017				<0.001		0.0017
8/10/2017	<0.001	<0.001	0.00048 (J)			
3/29/2018		<0.001	<0.001	0.00067 (J)	<0.001	
3/30/2018	<0.001					0.0018
6/14/2018	0.0005 (J)	<0.001	0.00052 (J)	0.00093 (J)	<0.001	0.002
10/3/2018						0.0024
10/4/2018	0.00089 (J)	0.00054 (J)	<0.001	0.0015	0.0017	
2/27/2019	<0.001	<0.001	<0.001	0.00036 (J)	<0.001	0.0015
4/3/2019		<0.001	<0.001	0.00053 (J)	<0.001	
4/4/2019	<0.001					0.0019
9/18/2019				0.00039 (J)	<0.001	0.0016
9/19/2019	0.00038 (J)	<0.001	<0.001			
2/5/2020	0.00035 (J)	<0.001	<0.001	0.00048 (J)	<0.001	
2/7/2020						0.001
3/18/2020	<0.001	<0.001	<0.001			0.00088 (J)
3/19/2020				0.00039 (J)	<0.001	
9/23/2020	<0.001		<0.001			0.00061 (J)
9/24/2020		0.00051 (J)		<0.001	<0.001	
2/3/2021		<0.001	<0.001			
2/4/2021	<0.001			0.00038 (J)	<0.001	0.00069 (J)
3/11/2021	0.00031 (J)			0.00035 (J)	<0.001	
3/12/2021		<0.001	<0.001			0.00084 (J)
8/25/2021		<0.001	<0.001	<0.001	<0.001	
8/26/2021	<0.001					0.0012
3/3/2022	<0.001	<0.001		<0.001	<0.001	0.00057 (J)
3/4/2022			0.00037 (J)			
8/16/2022		<0.001				
8/17/2022						0.00052 (J)
8/18/2022			<0.001	0.00034 (J)		
8/19/2022	<0.001				<0.001	
2/15/2023						<0.001

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	<0.001	<0.001	<0.001	<0.001	<0.001	
8/21/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mean	0.0008929	0.0009383	0.0009321	0.0007908	0.001202	0.001536
Std. Dev.	0.000235	0.000167	0.000185	0.0003174	0.0005394	0.0008316
Upper Lim.	0.001	0.001	0.001	0.001	0.0014	0.00196
Lower Lim.	0.00089	0.00054	0.00052	0.00048	0.00095	0.001111

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-20	WGWC-21	WGWC-22	WGWC-8
5/18/2016	<0.001	<0.001				
5/19/2016						<0.001
7/19/2016	0.0009 (J)					
7/20/2016		0.00058 (J)				0.00055 (J)
9/14/2016	0.0014	<0.001				
9/15/2016						<0.001
11/10/2016	0.0021	0.00082 (J)				
11/14/2016						<0.001
1/20/2017		<0.001				
1/24/2017	0.0015					
2/6/2017						<0.001
3/14/2017		<0.001				
3/15/2017	0.0014					<0.001
4/25/2017	0.0014	0.00095 (J)				
4/26/2017						<0.001
8/9/2017	0.0013	<0.001				
8/10/2017						<0.001
3/29/2018	0.0014					<0.001
3/30/2018		<0.001				
6/14/2018	<0.001	0.00076 (J)				<0.001
10/4/2018	0.0013	0.00088 (J)				0.0015
2/26/2019		0.0005 (J)				
2/27/2019	0.00046 (J)					0.00047 (J)
4/3/2019						<0.001
4/4/2019	<0.001	<0.001				
9/18/2019	<0.001	<0.001				
9/19/2019						0.00032 (J)
2/7/2020	<0.001	0.00075 (J)				0.0011
3/18/2020	<0.001	0.00054 (J)				
3/19/2020						0.00071 (J)
9/22/2020						0.0011
9/23/2020	<0.001	0.00067 (J)				
2/3/2021						0.0013
2/4/2021	<0.001	0.00035 (J)				
3/11/2021	<0.001	<0.001				0.0009 (J)
8/25/2021	<0.001	<0.001				
8/26/2021			0.00031 (J)	0.00057 (J)	<0.001	0.0013
1/11/2022				0.00036 (J)	<0.001	
1/12/2022			0.00052 (J)			
3/3/2022	<0.001			0.00053 (J)		0.0014
3/4/2022		<0.001	0.00078 (J)		0.00046 (J)	
6/6/2022				0.00083 (J)		
6/7/2022			0.00033 (J)		0.00029 (J)	
8/16/2022		<0.001		0.00028 (J)		0.00097 (J)
8/17/2022	<0.001					
8/18/2022			<0.001			
8/19/2022					<0.001	
2/15/2023	<0.001				<0.001	
2/16/2023		<0.001	<0.001	<0.001		<0.001
8/15/2023			<0.001			
8/18/2023	<0.001					0.00087 (J)
8/21/2023		<0.001		<0.001	<0.001	

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-20	WGWC-21	WGWC-22	WGWC-8
Mean	0.001132	0.0008667	0.0007057	0.0006529	0.0008214	0.0009788
Std. Dev.	0.0003068	0.0001991	0.0003156	0.0002941	0.0003089	0.0002684
Upper Lim.	0.0013	0.001	0.001	0.0007404	0.001	0.0009562
Lower Lim.	0.001	0.00075	0.00031	0.0002876	0.00029	0.0006277

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

	WGWC-9
5/19/2016	<0.001
7/20/2016	0.00078 (J)
9/14/2016	<0.001
2/9/2017	0.0017
3/15/2017	0.00047 (J)
4/11/2017	<0.001
4/26/2017	<0.001
8/10/2017	<0.001
3/29/2018	<0.001
6/14/2018	<0.001
10/4/2018	<0.001
2/28/2019	<0.001
4/3/2019	<0.001
9/19/2019	<0.001
2/5/2020	<0.001
3/19/2020	<0.001
9/23/2020	<0.001
2/4/2021	<0.001
3/12/2021	<0.001
8/26/2021	<0.001
3/3/2022	<0.001
8/17/2022	<0.001
2/15/2023	<0.001
8/21/2023	<0.001
Mean	0.0009979
Std. Dev.	0.0001887
Upper Lim.	0.0017
Lower Lim.	0.00078

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.0391					0.0206
5/19/2016		0.031	0.0214	0.055		
7/19/2016						0.019
7/20/2016	0.028	0.029	0.019	0.039		
9/14/2016	0.035	0.031	0.02	0.04		0.02
11/10/2016				0.04		0.02
11/11/2016	0.042	0.034	0.022			
1/24/2017						0.017
1/27/2017		0.042	0.023	0.042		
2/6/2017	0.041					
2/8/2017					0.037	
2/23/2017					0.051	
3/14/2017						0.018
3/15/2017	0.04	0.032	0.024	0.058		
3/17/2017					0.046	
4/11/2017					0.055	
4/25/2017						0.018
4/26/2017	0.039	0.03	0.004	0.054	0.042	
5/17/2017					0.052	
6/7/2017					0.06	
7/11/2017					0.038	
8/9/2017				0.055		0.02
8/10/2017	0.038	0.03	0.017			
3/29/2018		0.028	0.017	0.061	0.028	
3/30/2018	0.042					0.021
6/14/2018	0.038	0.03	0.015	0.055	0.023	0.022
10/3/2018						0.024
10/4/2018	0.04	0.035	0.017	0.046	0.036	
2/27/2019	0.04	0.04	0.016	0.054	0.028	0.023
4/3/2019		0.035	0.015	0.056	0.026	
4/4/2019	0.04					0.022
9/18/2019				0.062	0.025	0.026
9/19/2019	0.038	0.033	0.016			
2/5/2020	0.061	0.047	0.016	0.052	0.077	
2/7/2020						0.022
3/18/2020	0.035	0.038	0.016			0.021
3/19/2020				0.072	0.031	
9/23/2020	0.035		0.016			0.027
9/24/2020		0.061		0.038	0.034	
2/3/2021		0.039	0.015			
2/4/2021	0.035			0.047	0.029	0.028
3/11/2021	0.033			0.049	0.032	
3/12/2021		0.045	0.017			0.028
8/25/2021		0.04	0.016	0.046	0.03	
8/26/2021	0.032					0.029
3/3/2022	0.033	0.04		0.045	0.029	0.029
3/4/2022			0.016			
8/16/2022		0.038				
8/17/2022						0.027
8/18/2022			0.014	0.041		
8/19/2022	0.03				0.026	
2/15/2023						0.029

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	0.032	0.041	0.014	0.037	0.028	
8/21/2023	0.036	0.044	0.017	0.042	0.026	0.03
Mean	0.03759	0.03721	0.01681	0.04942	0.03704	0.02336
Std. Dev.	0.006291	0.007472	0.003887	0.008997	0.01347	0.004127
Upper Lim.	0.04014	0.04102	0.019	0.05401	0.04216	0.02546
Lower Lim.	0.03439	0.0334	0.015	0.04483	0.02997	0.02125

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	0.0715	0.0219				
7/19/2016	0.069					
7/20/2016		0.019				
9/14/2016	0.066	0.017				
11/10/2016	0.069	0.02				
11/11/2016			0.0022 (J)			
1/20/2017		0.018				
1/24/2017	0.068					
2/6/2017			0.0018 (J)			
3/14/2017		0.019				
3/15/2017	0.065		0.0015 (J)			
4/11/2017			0.0014 (J)			
4/25/2017	0.057	0.023				
4/26/2017			0.0014 (J)			
6/7/2017			0.0014 (J)			
7/11/2017			0.0013 (J)			
8/9/2017	0.069	0.017				
8/10/2017			0.0012 (J)			
3/29/2018	0.05		0.00097 (J)			
3/30/2018		0.015				
6/14/2018	0.046	0.013	0.0011 (J)			
10/4/2018	0.046	0.013	0.0012 (J)			
2/26/2019		0.012				
2/27/2019	0.028					
2/28/2019			<0.01			
4/2/2019			0.0013 (J)			
4/4/2019	0.027	0.011				
9/18/2019	0.032	0.011	<0.01			
2/7/2020	0.034	0.011	0.0065 (J)			
3/18/2020	0.034	0.012				
5/4/2020			<0.01			
9/23/2020	0.037	0.012	<0.01			
2/3/2021			<0.01			
2/4/2021	0.039	0.012				
3/11/2021	0.037	0.011	<0.01			
8/25/2021	0.035	0.011				
8/26/2021			<0.01	<0.01	0.0086 (J)	0.031
1/11/2022					0.0076 (J)	0.04
1/12/2022				<0.01		
3/3/2022	0.041		<0.01		0.0068 (J)	
3/4/2022		0.011		<0.01		0.038
6/6/2022					0.0079 (J)	
6/7/2022				<0.01		0.025
8/16/2022		0.011			0.0039 (J)	
8/17/2022	0.032		0.0012 (J)			
8/18/2022				0.00091 (J)		
8/19/2022						0.023
2/15/2023	0.044					0.033
2/16/2023		0.01	0.00096 (J)	<0.01	0.0053 (J)	
8/15/2023				<0.01		
8/18/2023	0.039					
8/21/2023		0.012	0.0014 (J)		0.0044 (J)	0.021

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
Mean	0.04731	0.01429	0.004451	0.008701	0.006357	0.03014
Std. Dev.	0.01526	0.003975	0.004148	0.003436	0.001832	0.007403
Upper Lim.	0.05407	0.018	0.01	0.01	0.008533	0.03894
Lower Lim.	0.03888	0.011	0.0013	0.00091	0.004181	0.02135

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016				0.0026	<0.01
7/20/2016				0.0017 (J)	0.0014 (J)
9/14/2016					0.00092 (J)
9/15/2016				0.0039	
11/14/2016				0.00085 (J)	
2/6/2017				0.0011 (J)	
2/9/2017					0.0015 (J)
3/15/2017				0.0013 (J)	0.00054 (J)
4/11/2017					0.0007 (J)
4/26/2017				0.00098 (J)	<0.01
8/10/2017				0.0025	0.00053 (J)
3/29/2018				0.00085 (J)	<0.01
6/14/2018				0.0028	0.00088 (J)
10/4/2018				0.0017 (J)	0.00076 (J)
2/27/2019				<0.01	
2/28/2019					0.0023 (J)
4/3/2019				0.001 (J)	<0.01
9/19/2019				<0.01	0.0018 (J)
2/5/2020					0.0022 (J)
2/7/2020				<0.01	
3/19/2020				<0.01	0.0021 (J)
9/22/2020				<0.01	
9/23/2020					<0.01
2/3/2021				<0.01	
2/4/2021					0.0016 (J)
3/11/2021				<0.01	
3/12/2021					<0.01
8/26/2021	0.0078 (J)	0.042	0.41	<0.01	<0.01
1/11/2022	0.0072 (J)	0.029	0.38		
3/3/2022		0.028		<0.01	<0.01
3/4/2022	0.0081 (J)		0.38		
6/6/2022	0.0097 (J)	0.032			
6/7/2022			0.34		
8/16/2022				0.0014 (J)	
8/17/2022	0.0089 (J)		0.31		<0.01
8/18/2022		0.041			
2/15/2023	0.0055 (J)	0.036	0.33		<0.01
2/16/2023				0.00093 (J)	
8/18/2023			0.19	0.0019 (J)	
8/21/2023	0.01	0.046			<0.01
Mean	0.008171	0.03629	0.3343	0.004813	0.005301
Std. Dev.	0.001551	0.006945	0.07231	0.004163	0.00444
Upper Lim.	0.01001	0.04454	0.4202	0.01	0.01
Lower Lim.	0.006329	0.02804	0.2484	0.0011	0.00092

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-14A	WGWC-16	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016		<0.0025				
7/19/2016		<0.0025				
9/14/2016		<0.0025				
11/10/2016		<0.0025				
1/24/2017		<0.0025				
2/8/2017	<0.0025					
2/23/2017	<0.0025					
3/15/2017		<0.0025				
3/17/2017	<0.0025					
4/11/2017	<0.0025					
4/25/2017		<0.0025				
4/26/2017	<0.0025					
5/17/2017	<0.0025					
6/7/2017	<0.0025					
7/11/2017	<0.0025					
8/9/2017		<0.0025				
3/29/2018	<0.0025	<0.0025				
6/14/2018	<0.0025	<0.0025				
10/4/2018	<0.0025	<0.0025				
2/27/2019	0.00017 (J)	0.00022 (J)				
4/3/2019	<0.0025					
4/4/2019		<0.0025				
9/18/2019	0.00032 (J)	<0.0025				
2/5/2020	0.00024 (J)					
2/7/2020		<0.0025				
3/18/2020		<0.0025				
3/19/2020	0.00025 (J)					
9/23/2020		<0.0025				
9/24/2020	0.00024 (J)					
2/4/2021	0.00026 (J)	<0.0025				
3/11/2021	<0.0025	<0.0025				
8/25/2021	<0.0025	<0.0025				
8/26/2021			0.0081	<0.0025	0.00053 (J)	0.00089 (J)
1/11/2022				<0.0025	0.00057 (J)	0.0012 (J)
1/12/2022			0.012			
3/3/2022	<0.0025	<0.0025		<0.0025		
3/4/2022			0.01		0.00066 (J)	0.00097 (J)
6/6/2022				<0.0025		0.0011 (J)
6/7/2022			0.0089		0.00055 (J)	
8/16/2022				0.00022 (J)		
8/17/2022		<0.0025				0.00078 (J)
8/18/2022			0.0081			
8/19/2022	<0.0025				0.00063 (J)	
2/15/2023		<0.0025			0.00067 (J)	0.0012 (J)
2/16/2023	0.00031 (J)		0.011	<0.0025		
8/15/2023			0.0099			
8/18/2023		<0.0025				
8/21/2023	0.00023 (J)			0.00021 (J)	0.0006 (J)	0.0013 (J)
Mean	0.001751	0.002405	0.009714	0.001847	0.0006014	0.001063
Std. Dev.	0.001083	0.0004654	0.001465	0.001115	5.429E-05	0.0001887
Upper Lim.	0.0025	0.0025	0.01145	0.0025	0.0006659	0.001287
Lower Lim.	0.00026	0.00022	0.007975	0.00021	0.0005369	0.0008387

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			0.00102 (J)	<0.0025
7/20/2016			0.0014 (J)	<0.0025
9/14/2016				<0.0025
9/15/2016			0.00093 (J)	
11/14/2016			0.0014 (J)	
2/6/2017			0.0017 (J)	
2/9/2017				0.00041 (J)
3/15/2017			0.0016 (J)	<0.0025
4/11/2017				<0.0025
4/26/2017			0.0017 (J)	<0.0025
8/10/2017			0.0017 (J)	0.00034 (J)
3/29/2018			0.0018 (J)	<0.0025
6/14/2018			0.0015 (J)	<0.0025
10/4/2018			0.0019 (J)	0.00036 (J)
2/27/2019			0.0021 (J)	
2/28/2019				0.00031 (J)
4/3/2019			0.0019 (J)	<0.0025
9/19/2019			0.0019	0.00041 (J)
2/5/2020				0.0004 (J)
2/7/2020			0.0023	
3/19/2020			0.0028	0.00056 (J)
9/22/2020			0.0025	
9/23/2020				0.00034 (J)
2/3/2021			0.0025	
2/4/2021				0.00039 (J)
3/11/2021			0.0022 (J)	
3/12/2021				0.00034 (J)
8/26/2021	0.014	0.00028 (J)	0.002 (J)	0.00038 (J)
1/11/2022	0.014	0.0002 (J)		
3/3/2022	0.01		0.0027	0.00036 (J)
3/4/2022		<0.0025		
6/6/2022	0.0062			
6/7/2022		0.0003 (J)		
8/16/2022			0.0018 (J)	
8/17/2022		0.00022 (J)		0.00033 (J)
8/18/2022	0.0044			
2/15/2023	0.0099	0.00026 (J)		0.00044 (J)
2/16/2023			0.0025	
8/18/2023		<0.0025	0.0024 (J)	
8/21/2023	0.0049			0.0004 (J)
Mean	0.009057	0.0008943	0.001927	0.001178
Std. Dev.	0.004033	0.001097	0.0004964	0.001047
Upper Lim.	0.01385	0.0025	0.00218	0.0025
Lower Lim.	0.004267	0.0002	0.001674	0.00036

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-16	WGWC-20	WGWC-22	WGWC-24	WGWC-25
5/18/2016	<0.0025	0.000362 (J)				
7/19/2016		<0.0025				
7/20/2016	<0.0025					
9/14/2016	<0.0025	0.00037 (J)				
11/10/2016		<0.0025				
11/11/2016	<0.0025					
1/24/2017		0.00055 (J)				
2/6/2017	<0.0025					
3/15/2017	<0.0025	0.00067 (J)				
4/25/2017		0.00058 (J)				
4/26/2017	<0.0025					
8/9/2017		0.00054 (J)				
8/10/2017	<0.0025					
3/29/2018		0.00082 (J)				
3/30/2018	<0.0025					
6/14/2018	<0.0025	0.0007 (J)				
10/4/2018	<0.0025	0.00065 (J)				
2/27/2019	<0.0025	0.00055 (J)				
4/4/2019	<0.0025	0.00047 (J)				
9/18/2019		0.00017 (J)				
9/19/2019	0.00021 (J)					
2/5/2020	<0.0025					
2/7/2020		<0.0025				
3/18/2020	<0.0025	0.00022 (J)				
9/23/2020	<0.0025	<0.0025				
2/4/2021	<0.0025	<0.0025				
8/26/2021			<0.0025	<0.0025	0.00061 (J)	<0.0025
1/11/2022				<0.0025	0.0004 (J)	<0.0025
1/12/2022			0.00026 (J)			
3/3/2022	<0.0025	<0.0025			0.0003 (J)	
3/4/2022			<0.0025	0.00025 (J)		<0.0025
6/6/2022					0.0003 (J)	
6/7/2022			<0.0025	<0.0025		<0.0025
8/17/2022		<0.0025				0.00012 (J)
8/18/2022			<0.0025		0.00015 (J)	
8/19/2022	<0.0025			9E-05 (J)		
2/15/2023		8.5E-05 (J)		0.00028 (J)	0.00057 (J)	0.0001 (J)
2/16/2023	<0.0025		0.00057 (J)			
8/15/2023			0.00019 (J)			
8/18/2023		<0.0025				<0.0025
8/21/2023	<0.0025			<0.0025	9.5E-05 (J)	
Mean	0.002396	0.001215	0.001574	0.001517	0.0003464	0.001817
Std. Dev.	0.0004882	0.001008	0.00116	0.001227	0.0001951	0.001166
Upper Lim.	0.0025	0.0025	0.0025	0.0025	0.0005782	0.0025
Lower Lim.	0.00021	0.00047	0.00019	9E-05	0.0001147	0.0001

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-8
5/19/2016	<0.0025
7/20/2016	<0.0025
9/15/2016	<0.0025
11/14/2016	<0.0025
2/6/2017	<0.0025
3/15/2017	<0.0025
4/26/2017	<0.0025
8/10/2017	<0.0025
3/29/2018	<0.0025
6/14/2018	<0.0025
10/4/2018	<0.0025
2/27/2019	<0.0025
4/3/2019	<0.0025
9/19/2019	<0.0025
2/7/2020	<0.0025
3/19/2020	<0.0025
9/22/2020	<0.0025
2/3/2021	<0.0025
3/3/2022	<0.0025
8/16/2022	<0.0025
2/16/2023	0.00065 (J)
8/18/2023	0.00013 (J)
Mean	0.002308
Std. Dev.	0.000626
Upper Lim.	0.0025
Lower Lim.	0.00065

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-13	WGWC-14A	WGWC-15	WGWC-21
5/18/2016	<0.002				<0.002	
5/19/2016		<0.002	<0.002			
7/19/2016					<0.002	
7/20/2016	0.0012 (J)	<0.002	<0.002			
9/14/2016	<0.002	<0.002	<0.002		<0.002	
11/10/2016			<0.002		<0.002	
11/11/2016	0.0015 (J)	<0.002				
1/24/2017					<0.002	
1/27/2017		<0.002	<0.002			
2/6/2017	0.0011 (J)					
2/8/2017				<0.002		
2/23/2017				<0.002		
3/14/2017					<0.002	
3/15/2017	0.0015 (J)	<0.002	<0.002			
3/17/2017				<0.002		
4/11/2017				<0.002		
4/25/2017					<0.002	
4/26/2017	0.0013 (J)	0.0011 (J)	<0.002	<0.002		
5/17/2017				<0.002		
6/7/2017				<0.002		
7/11/2017				<0.002		
8/9/2017			<0.002		<0.002	
8/10/2017	0.0016 (J)	<0.002				
3/29/2018		0.0012 (J)	<0.002	<0.002		
3/30/2018	0.0027				<0.002	
6/14/2018	0.0023 (J)	<0.002	<0.002	<0.002	<0.002	
10/3/2018					<0.002	
10/4/2018	0.0031	<0.002	<0.002	<0.002		
2/27/2019	0.0031	0.0021 (J)	0.0018 (J)	<0.002	0.0015 (J)	
4/3/2019		<0.002	<0.002	<0.002		
4/4/2019	0.0021 (J)				<0.002	
9/18/2019			<0.002	<0.002	<0.002	
9/19/2019	0.0022	<0.002				
2/5/2020	0.0022	<0.002	<0.002	0.0017 (J)		
2/7/2020					<0.002	
3/18/2020	<0.002	<0.002			<0.002	
3/19/2020			<0.002	<0.002		
9/23/2020	0.0018 (J)				<0.002	
9/24/2020		<0.002	<0.002	<0.002		
2/3/2021		<0.002				
2/4/2021	0.0018 (J)		<0.002	<0.002	<0.002	
3/11/2021	0.0023		0.0019 (J)	<0.002		
3/12/2021		0.0017 (J)			<0.002	
8/25/2021		<0.002	0.0017 (J)	<0.002		
8/26/2021	0.0024				<0.002	<0.002
1/11/2022						<0.002
3/3/2022	0.0023	<0.002	<0.002	<0.002	<0.002	<0.002
6/6/2022						<0.002
8/16/2022		<0.002				<0.002
8/17/2022					<0.002	
8/18/2022			<0.002			
8/19/2022	0.0024			<0.002		

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-13	WGWC-14A	WGWC-15	WGWC-21
2/15/2023					<0.002	
2/16/2023	0.0014 (J)	<0.002	<0.002	<0.002		0.0015 (J)
8/21/2023	0.0029	<0.002	<0.002	<0.002	<0.002	<0.002
Mean	0.001925	0.001921	0.001975	0.001988	0.001979	0.001929
Std. Dev.	0.0006694	0.0002467	7.372E-05	6.124E-05	0.0001021	0.000189
Upper Lim.	0.002267	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.001583	0.0017	0.0019	0.0017	0.0015	0.0015

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

	WGWC-9
5/19/2016	<0.002
7/20/2016	<0.002
9/14/2016	<0.002
2/9/2017	<0.002
3/15/2017	<0.002
4/11/2017	<0.002
4/26/2017	<0.002
8/10/2017	<0.002
3/29/2018	<0.002
6/14/2018	<0.002
10/4/2018	<0.002
2/28/2019	0.0025
4/3/2019	<0.002
9/19/2019	<0.002
2/5/2020	<0.002
3/19/2020	<0.002
9/23/2020	<0.002
2/4/2021	<0.002
3/12/2021	<0.002
8/26/2021	<0.002
3/3/2022	<0.002
8/17/2022	<0.002
2/15/2023	<0.002
8/21/2023	<0.002
Mean	0.002021
Std. Dev.	0.0001021
Upper Lim.	0.0025
Lower Lim.	0.002

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.00201 (J)					<0.0025
5/19/2016		<0.0025	<0.01	<0.0025		
7/19/2016						<0.0025
7/20/2016	0.00066 (J)	0.0025	0.0013 (J)	<0.0025		
9/14/2016	0.00095 (J)	<0.0025	0.00098 (J)	<0.0025		<0.0025
11/10/2016				<0.0025		<0.0025
11/11/2016	0.001 (J)	0.00052 (J)	0.0017 (J)			
1/24/2017						<0.0025
1/27/2017		0.00049 (J)	0.0022 (J)	<0.0025		
2/6/2017	0.00072 (J)					
2/8/2017					0.0051	
2/23/2017					0.014	
3/14/2017						<0.0025
3/15/2017	0.00062 (J)	0.00064 (J)	0.0016 (J)	<0.0025		
3/17/2017					0.013	
4/11/2017					0.016	
4/25/2017						<0.0025
4/26/2017	0.0014 (J)	0.001 (J)	0.00026 (J)	<0.0025	0.01	
5/17/2017					0.011	
6/7/2017					0.01	
7/11/2017					0.0085	
8/9/2017				0.0004 (J)		<0.0025
8/10/2017	<0.0025	0.0011 (J)	0.00049 (J)			
3/29/2018		<0.0025	0.0008 (J)	0.0008 (J)	0.015	
3/30/2018	0.0035					<0.0025
6/14/2018	0.0012 (J)	<0.0025	0.00067 (J)	0.00054 (J)	0.011	<0.0025
10/3/2018						<0.0025
10/4/2018	0.00086 (J)	<0.0025	0.00079 (J)	<0.0025	0.0055	
2/27/2019	0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)	0.0049	<0.0025
4/3/2019		0.00081 (J)	0.00043 (J)	<0.0025	0.0056	
4/4/2019	0.0017 (J)					<0.0025
9/18/2019				<0.0025	0.005	<0.0025
9/19/2019	0.0023	<0.0025	0.00028 (J)			
2/5/2020	0.0013	0.00026 (J)	0.00058	<0.0025	0.0044	
2/7/2020						<0.0025
3/18/2020	0.0012 (J)	0.00069 (J)	0.00071 (J)			<0.0025
3/19/2020				<0.0025	0.0039	
9/23/2020	0.00062 (J)		0.00039 (J)			<0.0025
9/24/2020		<0.0025		0.00032 (J)	0.0035	
2/3/2021		0.00072 (J)	0.00017 (J)			
2/4/2021	0.00059 (J)			<0.0025	0.0041	0.00015 (J)
3/11/2021	0.00058 (J)			<0.0025	0.0037	
3/12/2021		0.0022 (J)	0.00042 (J)			<0.0025
8/25/2021		0.00045 (J)	0.0005 (J)	<0.0025	0.0029	
8/26/2021	0.00044 (J)					<0.0025
3/3/2022	0.00045 (J)	0.00026 (J)		<0.0025	0.0024 (J)	<0.0025
3/4/2022			0.00056 (J)			
8/16/2022		<0.0025				
8/17/2022						<0.0025
8/18/2022			0.00034 (J)	<0.0025		
8/19/2022	0.0014 (J)				0.002 (J)	
2/15/2023						<0.0025

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	<0.0025	<0.0025	0.0004 (J)	<0.0025	0.0022 (J)	
8/21/2023	0.00038 (J)	<0.0025	0.00025 (J)	0.00024 (J)	0.002 (J)	<0.0025
Mean	0.00112	0.001618	0.0008925	0.001976	0.006904	0.002402
Std. Dev.	0.0007169	0.0009485	0.001012	0.0009333	0.004458	0.0004797
Upper Lim.	0.001371	0.0025	0.0009382	0.0025	0.00854	0.0025
Lower Lim.	0.0007391	0.00064	0.0004252	0.0008	0.004306	0.00015

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	0.0069	0.00245 (J)				
7/19/2016	0.012					
7/20/2016		0.0018 (J)				
9/14/2016	0.013	0.0014 (J)				
11/10/2016	0.016	0.0016 (J)				
11/11/2016			<0.0025			
1/20/2017		0.0014 (J)				
1/24/2017	0.015					
2/6/2017			0.00058 (J)			
3/14/2017		0.0023 (J)				
3/15/2017	0.014		0.00045 (J)			
4/11/2017			<0.0025			
4/25/2017	0.014	0.0023 (J)				
4/26/2017			<0.0025			
6/7/2017			<0.0025			
7/11/2017			<0.0025			
8/9/2017	0.016	0.0011 (J)				
8/10/2017			0.00049 (J)			
3/29/2018	0.0092		<0.0025			
3/30/2018		0.0016 (J)				
6/14/2018	0.0035	0.00055 (J)	<0.0025			
10/4/2018	0.0078	0.00041 (J)	<0.0025			
2/26/2019		0.00086 (J)				
2/27/2019	0.00084 (J)					
2/28/2019			0.00019 (J)			
4/2/2019			<0.0025			
4/4/2019	0.00077 (J)	<0.0025				
9/18/2019	0.00011 (J)	0.00018 (J)	0.00045 (J)			
2/7/2020	0.00016 (J)	0.00077	0.00024 (J)			
3/18/2020	0.00016 (J)	0.00052 (J)				
5/4/2020			0.00018 (J)			
9/23/2020	<0.0025	0.0009 (J)	0.00024 (J)			
2/3/2021			0.00025 (J)			
2/4/2021	0.00026 (J)	0.00042 (J)				
3/11/2021	0.00013 (J)	0.00035 (J)	0.00022 (J)			
8/25/2021	<0.0025	0.00042 (J)				
8/26/2021			0.00022 (J)	0.00046 (J)	0.00042 (J)	0.00038 (J)
1/11/2022					0.00032 (J)	0.00025 (J)
1/12/2022				0.00037 (J)		
3/3/2022	<0.0025		0.00034 (J)		0.00042 (J)	
3/4/2022		0.00026 (J)		<0.0025		0.00034 (J)
6/6/2022					0.001 (J)	
6/7/2022				<0.0025		<0.0025
8/16/2022		<0.0025			0.00039 (J)	
8/17/2022	<0.0025		<0.0025			
8/18/2022				<0.0025		
8/19/2022						<0.0025
2/15/2023	<0.0025					<0.0025
2/16/2023		<0.0025	0.00053 (J)	<0.0025	<0.0025	
8/15/2023				<0.0025		
8/18/2023	<0.0025					
8/21/2023		<0.0025	0.00026 (J)		<0.0025	<0.0025

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
Mean	0.006035	0.001316	0.001235	0.001904	0.001079	0.001567
Std. Dev.	0.005943	0.0008585	0.001097	0.001018	0.000997	0.001164
Upper Lim.	0.005398	0.001125	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.0008205	0.0005141	0.00025	0.00037	0.00032	0.00025

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016				<0.0025	<0.0025
7/20/2016				<0.0025	
9/14/2016					<0.0025
9/15/2016				<0.0025	
11/14/2016				<0.0025	
2/6/2017				<0.0025	
2/9/2017					0.00073 (J)
3/15/2017				<0.0025	<0.0025
4/11/2017					<0.0025
4/26/2017				<0.0025	<0.0025
8/10/2017				<0.0025	<0.0025
3/29/2018				0.00066 (J)	<0.0025
6/14/2018				0.0011 (J)	<0.0025
10/4/2018				<0.0025	<0.0025
2/27/2019				0.0019 (J)	
2/28/2019					<0.0025
4/3/2019				0.0037	<0.0025
9/19/2019				0.0028	<0.0025
2/5/2020					<0.0025
2/7/2020				0.0011	
3/19/2020				0.00092 (J)	<0.0025
9/22/2020				0.00065 (J)	
9/23/2020					<0.0025
2/3/2021				0.00014 (J)	
2/4/2021					<0.0025
3/11/2021				0.00043 (J)	
3/12/2021					<0.0025
8/26/2021	0.00017 (J)	0.13	0.005	0.0005 (J)	<0.0025
1/11/2022	0.00016 (J)	0.11	0.0048		
3/3/2022		0.086		0.0003 (J)	<0.0025
3/4/2022	<0.0025		0.004		
6/6/2022	<0.0025	0.042			
6/7/2022			0.0043		
8/16/2022				0.00075 (J)	
8/17/2022	<0.0025		0.0037		<0.0025
8/18/2022		0.031			
2/15/2023	<0.0025	0.084	0.0049		<0.0025
2/16/2023				<0.0025	
8/18/2023			0.0081	<0.0025	
8/21/2023	<0.0025	0.035			<0.0025
Mean	0.001833	0.074	0.004971	0.001769	0.002426
Std. Dev.	0.001139	0.03888	0.001463	0.001022	0.0003613
Upper Lim.	0.0025	0.1202	0.006525	0.0025	0.0025
Lower Lim.	0.00016	0.02782	0.003564	0.00066	0.00073

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.182 (U)					0.569
5/19/2016		0.431 (U)	0.0698 (U)	0.219 (U)		
7/19/2016						0.29 (U)
7/20/2016	-0.135 (U)	-0.263 (U)	-0.0646 (U)	0.404 (U)		
9/14/2016	0.311 (U)	0.13 (U)	0.199 (U)	0.692		0.412 (U)
11/10/2016				1		0.709
11/11/2016	0.542	0.0257 (U)	0.467			
1/24/2017						0.779
1/27/2017		0.898	0.836	0.668		
2/6/2017	0.104 (U)					
2/8/2017					0.958	
2/23/2017					0.771	
3/14/2017						0.247 (U)
3/15/2017	0.523	0.121 (U)	0.254 (U)	0.847		
3/17/2017					1.7	
4/11/2017					0.901	
4/25/2017						0.515
4/26/2017	0.069 (U)	0.0309 (U)	0.267 (U)	0.408 (U)	0.434	
5/17/2017					0.632	
6/7/2017					1.06	
7/11/2017					0.716	
8/9/2017				0.816		1.7
8/10/2017	0.189 (U)	0.326 (U)	0.912			
3/29/2018		0.461	0.419	0.51	0.58	
3/30/2018	0.575					0.0985 (U)
6/14/2018	0.523	0.275 (U)	-0.263 (U)	0.463	0.55	0.171 (U)
10/3/2018						0.766
10/4/2018	0.84	1.18	1.29	0.99	0.563	
2/27/2019	0.236 (U)	0.374	0.415	1.08	0.538	0.363 (U)
4/3/2019		0.187 (U)	0.264 (U)	0.446	0.497	
4/4/2019	0.233 (U)					0.418
9/18/2019				0.392	0.376 (U)	0.484
9/19/2019	0.124 (U)	0.338 (U)	0.329 (U)			
2/5/2020	0.0961 (U)	0.163 (U)	0.225 (U)	0.609	0.5	
2/7/2020						0.125 (U)
3/18/2020	0.461 (U)	0.866	-0.0262 (U)			0.303 (U)
3/19/2020				0.47	0.376 (U)	
9/23/2020	0.442 (U)		0.785			0.448 (U)
9/24/2020		1.2		1.02	0.796	
2/3/2021		0.718	0.322 (U)			
2/4/2021	0.0332 (U)			0.139 (U)	0.564	0.488 (U)
3/11/2021	0.42 (U)			0.473	0.764	
3/12/2021		0.0729 (U)	0.633			0.591
8/25/2021		0.401	0.443 (U)	0.913	0.705	
8/26/2021	0.321 (U)					0.678
3/3/2022	0.587	0.622		0.621	0.956	0.358 (U)
3/4/2022			0.408			
8/16/2022		0.5				
8/17/2022						0.563
8/18/2022			0.279 (U)	0.719		
8/19/2022	0.497 (U)				0.932	
2/15/2023						0.0878 (U)

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	0.326 (U)	0.417 (U)	0.388 (U)	0.2 (U)	0.455 (U)	
9/28/2023	-0.112 (U)	0.297 (U)	0.45 (U)	-0.09 (U)	0.277 (U)	0.0271 (U)
Mean	0.3078	0.4071	0.3875	0.5837	0.6917	0.4663
Std. Dev.	0.241	0.3605	0.3332	0.3052	0.3006	0.3401
Upper Lim.	0.4308	0.5911	0.5576	0.7394	0.8119	0.5828
Lower Lim.	0.1848	0.2232	0.2175	0.428	0.5321	0.2702

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	1.03	0.116 (U)				
7/19/2016	2.39					
7/20/2016		0.247 (U)				
9/14/2016	3.05	0.594				
11/10/2016	2.87	0.431				
11/11/2016			-0.11 (U)			
1/20/2017		1.35				
1/24/2017	2.68					
2/6/2017			0.471			
3/14/2017		-0.107 (U)				
3/15/2017	1.64		0.255 (U)			
4/11/2017			0.19 (U)			
4/25/2017	0.878	0.228 (U)				
4/26/2017			0.22 (U)			
6/7/2017			0.126 (U)			
7/11/2017			0.511			
8/9/2017	2.5	-0.0246 (U)				
8/10/2017			0.882			
3/29/2018	1.6		0.252 (U)			
3/30/2018		0.135 (U)				
6/14/2018	1.09	-0.373 (U)	0.0458 (U)			
10/4/2018	1.99	0.775	0.381			
2/26/2019		0.431				
2/27/2019	0.721					
2/28/2019			0.254 (U)			
4/2/2019			0.209 (U)			
4/4/2019	0.632	0.386				
9/18/2019	0.278 (U)	0.167 (U)	0.403 (U)			
2/7/2020	0.797	0.244 (U)	0.2 (U)			
3/18/2020	0.437	0.0655 (U)				
5/4/2020			0.0697 (U)			
9/23/2020	0.276 (U)	0.643	1.18			
2/3/2021			0.684			
2/4/2021	0.727	0.438 (U)				
3/11/2021	0.942	0.247 (U)	0.286 (U)			
8/25/2021	0.518	0.565				
8/26/2021			0.796	1.6	1.17	3.54
1/11/2022					0.919	6.91
1/12/2022				1.09		
3/3/2022	0.573		0.909		1.31	
3/4/2022		0.573		0.925		7.57
6/6/2022					2.61	
6/7/2022				0.67		4.67
8/16/2022		0.668			1.35	
8/17/2022	0.946		0.155 (U)			
8/18/2022				0.994		
8/19/2022						3.07
2/15/2023	0.734					5.98
2/16/2023		0.121 (U)	0.248 (U)	0.853	0.617	
9/13/2023				0.591 (U)		
9/21/2023					2.44	4.47
9/28/2023	0.732	0.533 (U)	0.369 (U)			

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
Mean	1.251	0.3522	0.3744	0.9604	1.488	5.173
Std. Dev.	0.8652	0.3468	0.3109	0.3318	0.7527	1.696
Upper Lim.	1.556	0.5292	0.5331	1.355	2.382	7.187
Lower Lim.	0.7546	0.1753	0.2158	0.5663	0.5939	3.159

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016				0.711 (U)	0.209 (U)
7/20/2016				1.14	-0.084 (U)
9/14/2016					0.42 (U)
9/15/2016				1.26	
11/14/2016				0.749	
2/6/2017				1.05	
2/9/2017					0.393
3/15/2017				1.32	0.271 (U)
4/11/2017					0.488 (U)
4/26/2017				1.07	0.14 (U)
8/10/2017				1.88	0.379
3/29/2018				2.31	0.278 (U)
6/14/2018				1.86	0.157 (U)
10/4/2018				2.44	0.48
2/27/2019				2.42	
2/28/2019					0.271 (U)
4/3/2019				1.55	0.0621 (U)
9/19/2019				2.06	0.537
2/5/2020					-0.137 (U)
2/7/2020				1.66	
3/19/2020				1.21	0.23 (U)
9/22/2020				1.75	
9/23/2020					0.0587 (U)
2/3/2021				2	
2/4/2021					0.353 (U)
3/11/2021				2.38	
3/12/2021					0.831
8/26/2021	0.703	1.63	1.12	2.87	0.681
1/11/2022	0.218 (U)	0.749	0.606		
3/3/2022		0.893		3.18	0.431 (U)
3/4/2022	0.437 (U)		0.818		
6/6/2022	1.45	0.845			
6/7/2022			0.5		
8/16/2022				2.4	
8/17/2022	0.976		0.763		0.139 (U)
8/18/2022		1.03			
2/15/2023	0.985	0.974	0.873		0.0109 (U)
2/16/2023				3.04	
9/21/2023	1.91	1.62			
9/28/2023			0.581 (U)	2.65	0.209 (U)
Mean	0.9541	1.106	0.7516	1.873	0.2837
Std. Dev.	0.5821	0.3658	0.2116	0.717	0.2309
Upper Lim.	1.646	1.533	1.003	2.239	0.4015
Lower Lim.	0.2627	0.7176	0.5003	1.507	0.1658

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.206					0.779
5/19/2016		0.039 (J)	0.12 (J)	0.384		
7/19/2016						0.97
7/20/2016	0.23	<0.1	0.11 (J)	0.34		
9/14/2016	0.17 (J)	<0.1	0.095 (J)	0.31		0.89
11/10/2016				0.26		0.88
11/11/2016	0.14 (J)	<0.1	<0.2			
1/24/2017						0.92
1/27/2017		<0.1	<0.2	0.28		
2/6/2017	0.15 (J)					
2/8/2017					<0.1	
2/23/2017					<0.1	
3/14/2017						0.77
3/15/2017	0.16 (J)	<0.1	<0.2	0.3		
3/17/2017					<0.1	
4/11/2017					<0.1	
4/25/2017						0.95
4/26/2017	0.17 (J)	<0.1	<0.2	0.33	<0.1	
5/17/2017					<0.1	
6/7/2017					<0.1	
7/11/2017					<0.1	
8/9/2017				0.32		0.91
8/10/2017	0.2	<0.1	0.11 (J)			
10/11/2017					<0.1	0.88
10/12/2017	0.14 (J)	<0.1	0.091 (J)	0.28		
3/29/2018		<0.1	0.089 (J)	0.27	<0.1	
3/30/2018	0.13 (J)					0.79
6/14/2018	0.15 (J)	<0.1	0.1 (J)	0.27	<0.1	0.79
10/3/2018						0.79
10/4/2018	0.18 (J)	<0.1	0.12 (J)	0.23	<0.1	
2/27/2019	0.21	0.047 (J)	0.06 (J)	0.25	<0.1	0.81
4/3/2019		0.048 (J)	0.084 (J)	0.24	0.048 (J)	
4/4/2019	0.13 (J)					0.78
9/18/2019				0.22	0.035 (J)	0.81
9/19/2019	0.13 (J)	0.037 (J)	0.093 (J)			
2/5/2020	0.14	0.045 (J)	0.098 (J)	0.2	0.04 (J)	
2/7/2020						0.79
3/18/2020	0.052 (J)	<0.1	0.033 (J)			0.71
3/19/2020				0.15	<0.1	
9/23/2020	0.09 (J)		0.064 (J)			0.63
9/24/2020		0.18		<0.1	0.028 (J)	
2/3/2021		0.027 (J)	0.082 (J)			
2/4/2021	0.12			0.16	0.033 (J)	0.69
3/11/2021	0.15			0.18	0.04 (J)	
3/12/2021		0.044 (J)	0.096 (J)			0.88
8/25/2021		0.056 (J)	0.14	0.2	0.071 (J)	
8/26/2021	0.16					0.77
3/3/2022	0.067 (J)	0.055 (J)		0.21	0.057 (J)	0.88
3/4/2022			0.068 (J)			
8/16/2022		<0.1				
8/17/2022						0.68
8/18/2022			0.073 (J)	0.14		

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/19/2022	0.1				<0.1	
2/15/2023						0.73
2/16/2023	0.11	0.041 (J)	0.089 (J)	0.15	<0.1	
8/23/2023	0.1	0.041 (J)	0.083 (J)	0.13	0.04 (J)	0.73
Mean	0.1434	0.0784	0.1079	0.2342	0.07968	0.8084
Std. Dev.	0.04356	0.03556	0.0463	0.07836	0.0287	0.08813
Upper Lim.	0.1651	0.1	0.09676	0.2732	0.1	0.8523
Lower Lim.	0.1217	0.045	0.07296	0.1951	0.048	0.7644

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	0.1 (J)	0.121 (J)				
7/19/2016	0.14 (J)					
7/20/2016		0.16 (J)				
9/14/2016	0.18 (J)	0.19 (J)				
11/10/2016	0.11 (J)	0.15 (J)				
11/11/2016			0.32			
1/20/2017		0.18 (J)				
1/24/2017	0.15 (J)					
2/6/2017			0.45			
3/14/2017		0.11 (J)				
3/15/2017	0.1 (J)		0.37			
4/11/2017			0.37			
4/25/2017	0.13 (J)	0.13 (J)				
4/26/2017			0.4			
6/7/2017			0.35			
7/11/2017			0.39			
8/9/2017	0.18 (J)	0.19 (J)				
8/10/2017			0.42			
10/11/2017	<2	0.14 (J)				
10/12/2017			0.36			
3/29/2018	0.13 (J)		0.34			
3/30/2018		0.095 (J)				
6/14/2018	<2	0.11 (J)	0.35			
10/4/2018	0.85 (J)	0.11 (J)	0.35			
2/26/2019		0.068 (J)				
2/27/2019	0.47					
2/28/2019			0.28			
4/2/2019			0.33			
4/4/2019	0.08 (J)	0.087 (J)				
9/18/2019	0.058 (J)	0.066 (J)	0.32			
2/7/2020	0.072 (J)	0.079 (J)	0.35			
3/18/2020	0.084 (J)	<0.1				
5/4/2020			0.36			
9/23/2020	0.049 (J)	0.05 (J)	0.25			
2/3/2021			0.3			
2/4/2021	0.052 (J)	0.064 (J)				
3/8/2021				1.8		
3/9/2021					1.7	1.1
3/11/2021	0.061 (J)	0.05 (J)	0.31			
4/7/2021					1.6	
4/8/2021				1.7		1.4
8/25/2021	0.099 (J)	0.093 (J)				
8/26/2021			0.38	2	2	0.51
1/11/2022					1.9	0.45
1/12/2022				1.8		
3/3/2022	0.067 (J)		0.4		1.8	
3/4/2022		0.06 (J)		2		0.42
6/6/2022					1.9	
6/7/2022				2.5		0.37
8/16/2022		0.06 (J)			1.8	
8/17/2022	0.062 (J)		0.28			
8/18/2022				2		

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
8/19/2022						0.31
2/15/2023	0.076 (J)					0.31
2/16/2023		0.069 (J)	0.33	1.9	1.9	
8/17/2023				2.1		
8/22/2023	0.065 (J)					
8/23/2023		0.064 (J)	0.34		1.8	0.32
Mean	0.2146	0.1018	0.348	1.978	1.822	0.5767
Std. Dev.	0.2904	0.04517	0.04564	0.2333	0.1202	0.3949
Upper Lim.	0.15	0.1244	0.3708	2.203	1.938	1.4
Lower Lim.	0.067	0.07932	0.3252	1.752	1.706	0.31

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016				0.304	1.58
7/20/2016				0.27	2
9/14/2016					1.8
9/15/2016				0.24	
11/14/2016				0.2	
2/6/2017				0.27	
2/9/2017					1.3
3/15/2017				0.25	1.3
4/11/2017					1.4
4/26/2017				0.31	1.5
8/10/2017				0.37	1.6
10/12/2017				0.35	1.5
3/29/2018				0.36	1.4
6/14/2018				0.56	1.4
10/4/2018				0.27	1.4
2/27/2019				0.054 (J)	
2/28/2019					1.4
4/3/2019				0.5	1.3
9/19/2019				0.42	1.3
2/5/2020					1.3
2/7/2020				0.25	
3/19/2020				0.057 (J)	1
9/22/2020				0.14	
9/23/2020					0.82
2/3/2021				0.15	
2/4/2021					0.91
3/8/2021			<0.1		
3/9/2021	0.092 (J)	1			
3/11/2021				0.16	
3/12/2021					0.98
4/7/2021	0.093 (J)	1.1			
4/8/2021			0.028 (J)		
8/26/2021	0.081 (J)	1.2	0.047 (J)	0.21	1
1/11/2022	0.045 (J)	1	0.028 (J)		
3/3/2022		0.71		0.19	1
3/4/2022	0.045 (J)		0.038 (J)		
6/6/2022	0.028 (J)	0.43			
6/7/2022			<0.1		
8/16/2022				0.21	
8/17/2022	0.043 (J)		<0.1		0.9
8/18/2022		0.24			
2/15/2023	0.048 (J)	0.63	<0.1		0.85
2/16/2023				0.14	
8/22/2023			0.049 (J)	0.15 (J)	0.9
8/23/2023	0.045 (J)	0.28			
Mean	0.05778	0.7322	0.06556	0.2554	1.274
Std. Dev.	0.02409	0.3617	0.03344	0.1239	0.3095
Upper Lim.	0.07957	1.081	0.1	0.3171	1.428
Lower Lim.	0.0361	0.383	0.028	0.1937	1.119

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001					<0.001
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						<0.001
7/20/2016	<0.001	<0.001	<0.001	<0.001		
9/14/2016	<0.001	<0.001	<0.001	0.00055 (J)		<0.001
11/10/2016				0.00047 (J)		<0.001
11/11/2016	<0.001	<0.001	<0.001			
1/24/2017						<0.001
1/27/2017		<0.001	<0.001	<0.001		
2/6/2017	<0.001					
2/8/2017					<0.001	
2/23/2017					<0.001	
3/14/2017						<0.001
3/15/2017	<0.001	<0.001	<0.001	<0.001		
3/17/2017					<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	
5/17/2017					<0.001	
6/7/2017					<0.001	
7/11/2017					<0.001	
8/9/2017				<0.001		<0.001
8/10/2017	<0.001	<0.001	<0.001			
3/29/2018		<0.001	<0.001	<0.001	<0.001	
3/30/2018	<0.001					<0.001
2/27/2019	0.00023 (J)	0.00058 (J)	<0.001	0.00068 (J)	<0.001	<0.001
4/3/2019		<0.001	<0.001	0.00047 (J)	<0.001	
4/4/2019	<0.001					<0.001
9/18/2019				0.00045 (J)	<0.001	<0.001
9/19/2019	0.00041 (J)	<0.001	<0.001			
2/5/2020	0.00016 (J)	<0.001	<0.001	0.00045 (J)	<0.001	
2/7/2020						<0.001
3/18/2020	0.00021 (J)	<0.001	<0.001			<0.001
3/19/2020				0.0006 (J)	0.00017 (J)	
9/23/2020	0.00013 (J)		<0.001			<0.001
9/24/2020		0.00037 (J)		<0.001	0.00018 (J)	
2/3/2021		<0.001	<0.001			
2/4/2021	0.00019 (J)			0.00038 (J)	0.00013 (J)	0.0003 (J)
3/11/2021	0.00032 (J)			0.00075 (J)	0.00031 (J)	
3/12/2021		0.00038 (J)	<0.001			<0.001
8/25/2021		0.00023 (J)	<0.001	0.00025 (J)	0.00041 (J)	
8/26/2021	0.00026 (J)					<0.001
3/3/2022	0.00025 (J)	<0.001		0.00023 (J)	0.00057 (J)	<0.001
3/4/2022			0.00033 (J)			
8/16/2022		<0.001				
8/17/2022						<0.001
8/18/2022			<0.001	0.0011		
8/19/2022	0.0003 (J)				0.00036 (J)	
2/15/2023						<0.001
2/16/2023	<0.001	<0.001	<0.001	0.00027 (J)	0.00024 (J)	
8/21/2023	<0.001	<0.001	<0.001	0.00025 (J)	0.00022 (J)	<0.001
Mean	0.0006573	0.0008891	0.0009695	0.0006773	0.0007086	0.0009682

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
Std. Dev.	0.000388	0.0002469	0.0001428	0.0003123	0.0003687	0.0001492
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00025	0.00058	0.00033	0.00038	0.00031	0.0003

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-22	WGWC-23	WGWC-24
5/18/2016	<0.001	<0.001				
7/19/2016	<0.001					
7/20/2016		<0.001				
9/14/2016	<0.001	<0.001				
11/10/2016	<0.001	<0.001				
11/11/2016			<0.001			
1/20/2017		<0.001				
1/24/2017	<0.001					
2/6/2017			<0.001			
3/14/2017		<0.001				
3/15/2017	<0.001		<0.001			
4/11/2017			<0.001			
4/25/2017	<0.001	<0.001				
4/26/2017			<0.001			
6/7/2017			<0.001			
7/11/2017			<0.001			
8/9/2017	<0.001	<0.001				
8/10/2017			<0.001			
3/29/2018	<0.001		<0.001			
3/30/2018		<0.001				
2/26/2019		0.00033 (J)				
2/27/2019	0.00014 (J)					
2/28/2019			<0.001			
4/2/2019			<0.001			
4/4/2019	<0.001	<0.001				
9/18/2019	<0.001	<0.001	<0.001			
2/7/2020	<0.001	<0.001	<0.001			
3/18/2020	<0.001	0.0002 (J)				
5/4/2020			<0.001			
9/23/2020	<0.001	<0.001	<0.001			
2/3/2021			<0.001			
2/4/2021	0.00013 (J)	<0.001				
3/11/2021	<0.001	<0.001	<0.001			
8/25/2021	<0.001	<0.001				
8/26/2021			<0.001	0.00022 (J)	<0.001	0.0012
1/11/2022				0.00023 (J)	<0.001	0.00082 (J)
3/3/2022	<0.001		0.0003 (J)			0.00076 (J)
3/4/2022		<0.001		0.00036 (J)	<0.001	
6/6/2022					<0.001	0.00047 (J)
6/7/2022				<0.001		
8/16/2022		<0.001				
8/17/2022	<0.001		<0.001		<0.001	
8/18/2022						0.00032 (J)
8/19/2022				0.00037 (J)		
2/15/2023	<0.001			0.00023 (J)	0.0046	0.00056 (J)
2/16/2023		<0.001	<0.001			
8/18/2023	<0.001					
8/21/2023		<0.001	<0.001	<0.001	<0.001	0.00029 (J)
Mean	0.0009214	0.0009332	0.0009682	0.0004871	0.001514	0.0006314
Std. Dev.	0.0002545	0.0002172	0.0001492	0.0003558	0.001361	0.0003215
Upper Lim.	0.001	0.001	0.001	0.001	0.0046	0.001013
Lower Lim.	0.00014	0.00033	0.0003	0.00022	0.001	0.0002496

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-8	WGWC-9
5/19/2016	<0.001	<0.001
7/20/2016	<0.001	<0.001
9/14/2016		<0.001
9/15/2016	<0.001	
11/14/2016	<0.001	
2/6/2017	<0.001	
2/9/2017		<0.001
3/15/2017	<0.001	<0.001
4/11/2017		<0.001
4/26/2017	<0.001	<0.001
8/10/2017	<0.001	<0.001
3/29/2018	<0.001	<0.001
2/27/2019	0.00017 (J)	
2/28/2019		0.00014 (J)
4/3/2019	<0.001	<0.001
9/19/2019	<0.001	<0.001
2/5/2020		<0.001
2/7/2020	<0.001	
3/19/2020	0.00016 (J)	<0.001
9/22/2020	0.00013 (J)	
9/23/2020		<0.001
2/3/2021	0.00013 (J)	
2/4/2021		<0.001
3/11/2021	<0.001	
3/12/2021		<0.001
8/26/2021	0.00014 (J)	<0.001
3/3/2022	0.00052 (J)	<0.001
8/16/2022	0.00041 (J)	
8/17/2022		<0.001
2/15/2023		<0.001
2/16/2023	0.00029 (J)	
8/18/2023	<0.001	
8/21/2023		<0.001
Mean	0.000725	0.0009609
Std. Dev.	0.0003821	0.0001834
Upper Lim.	0.001	0.001
Lower Lim.	0.00029	0.00014

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.032					<0.005
5/19/2016		<0.005	<0.05	<0.005		
7/19/2016						0.0036 (J)
7/20/2016	0.021	<0.005	0.0057	<0.005		
9/14/2016	0.02	<0.005	0.0077	<0.005		<0.005
11/10/2016				0.0038 (J)		0.0064
11/11/2016	0.017	<0.005	0.007			
1/24/2017						0.0075
1/27/2017		<0.005	0.0074	<0.005		
2/6/2017	0.016					
2/8/2017					0.0039 (J)	
2/23/2017					<0.005	
3/14/2017						0.0057
3/15/2017	0.014	<0.005	0.0077	<0.005		
3/17/2017					<0.005	
4/11/2017					<0.005	
4/25/2017						0.0059
4/26/2017	0.011	<0.005	0.0011	<0.005	<0.005	
5/17/2017					0.0033 (J)	
6/7/2017					<0.005	
7/11/2017					<0.005	
8/9/2017				<0.005		0.0068
8/10/2017	0.011	<0.005	0.0064			
3/29/2018		0.0018 (J)	0.01	0.0022 (J)	0.0025 (J)	
3/30/2018	0.016					0.0077
6/14/2018	0.0084	0.0011 (J)	0.0062	0.0018 (J)	0.0018 (J)	0.0052
10/3/2018						0.006
10/4/2018	0.0085	0.0014 (J)	0.0066	0.0025 (J)	0.0016 (J)	
2/27/2019	0.0068	<0.005	0.0068	<0.005	<0.005	0.0055
4/3/2019		<0.005	0.0075	<0.005	0.0015 (J)	
4/4/2019	0.0059					0.0054
9/18/2019				<0.005	<0.005	0.0054
9/19/2019	0.0075	<0.005	0.0067			
2/5/2020	0.0061	<0.005	0.0063	<0.005	<0.005	
2/7/2020						0.0068
3/18/2020	0.0071	<0.005	0.0081			0.0086
3/19/2020				<0.005	<0.005	
9/23/2020	0.0054		0.007			0.0071
9/24/2020		<0.005		<0.005	<0.005	
2/3/2021		<0.005	0.0075			
2/4/2021	0.0049 (J)			<0.005	<0.005	0.0086
3/11/2021	0.0051			0.0037 (J)	0.0035 (J)	
3/12/2021		<0.005	0.0089			0.0096
8/25/2021		<0.005	0.0061	<0.005	<0.005	
8/26/2021	0.0044 (J)					0.0059
3/3/2022	0.0038 (J)	<0.005		0.0018 (J)	0.0019 (J)	0.0068
3/4/2022			0.0061			
8/16/2022		0.00092 (J)				
8/17/2022						0.0073
8/18/2022			0.0063	0.0024 (J)		
8/19/2022	0.0049 (J)				0.0021 (J)	
2/15/2023						0.0062

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	0.0025 (J)	<0.005	0.0036 (J)	<0.005	<0.005	
8/21/2023	0.0024 (J)	<0.005	0.0056	<0.005	<0.005	0.0055
Mean	0.01007	0.004384	0.007388	0.0043	0.004046	0.006187
Std. Dev.	0.007183	0.001414	0.004117	0.001192	0.001364	0.00172
Upper Lim.	0.01251	0.005	0.0077	0.005	0.005	0.007065
Lower Lim.	0.006117	0.0018	0.0062	0.0037	0.0025	0.00531

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.005	<0.05				
7/19/2016	0.0091					
7/20/2016		0.0042 (J)				
9/14/2016	0.012	0.0058				
11/10/2016	0.013	0.0066				
11/11/2016			0.045			
1/20/2017		0.0044 (J)				
1/24/2017	0.011					
2/6/2017			0.05			
3/14/2017		0.0048 (J)				
3/15/2017	0.01		0.052			
4/11/2017			0.048			
4/25/2017	0.0081	0.0049 (J)				
4/26/2017			0.044			
6/7/2017			0.047			
7/11/2017			0.045			
8/9/2017	0.013	0.0067				
8/10/2017			0.056			
3/29/2018	0.015		0.072			
3/30/2018		0.0067				
6/14/2018	0.009	0.0046 (J)	0.048			
10/4/2018	0.012	0.005	0.062			
2/26/2019		0.0063				
2/27/2019	0.0075					
2/28/2019			0.045			
4/2/2019			0.052			
4/4/2019	0.0077	0.0042 (J)				
9/18/2019	0.0056	0.0047 (J)	0.052			
2/7/2020	0.0053	0.0045 (J)	0.044			
3/18/2020	0.0057	0.0054				
5/4/2020			0.049			
9/23/2020	0.0059	0.0056	0.056			
2/3/2021			0.06			
2/4/2021	0.0051	0.0047 (J)				
3/8/2021				0.11		
3/9/2021					0.022	0.011
3/11/2021	0.005	0.0049 (J)	0.051			
4/7/2021					0.031	
4/8/2021				0.11		0.0081
8/25/2021	0.0046 (J)	0.0048 (J)				
8/26/2021			0.057	0.11	0.032	0.011
1/11/2022					0.038	0.011
1/12/2022				0.15		
3/3/2022	0.0041 (J)		0.057		0.044	
3/4/2022		0.0042 (J)		0.14		0.011
6/6/2022					0.051	
6/7/2022				0.12		0.0093
8/16/2022		0.0053			0.059	
8/17/2022	0.0042 (J)		0.056			
8/18/2022				0.11		
8/19/2022						0.01
2/15/2023	0.0044 (J)					0.009

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
2/16/2023		0.0026 (J)	0.053	0.14	0.053	
8/15/2023				0.13		
8/18/2023	<0.005					
8/21/2023		0.0031 (J)	0.062		0.061	0.0069
Mean	0.007596	0.005792	0.05263	0.1244	0.04344	0.0097
Std. Dev.	0.003596	0.004215	0.006914	0.0159	0.01357	0.001496
Upper Lim.	0.009431	0.0058	0.05615	0.15	0.05655	0.011
Lower Lim.	0.005761	0.0044	0.0491	0.11	0.03034	0.0069

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016				0.0215	0.0335
7/20/2016				0.026	0.024
9/14/2016					0.039
9/15/2016				0.057	
11/14/2016				0.017	
2/6/2017				0.012	
2/9/2017					0.04
3/15/2017				0.014	0.035
4/11/2017					0.034
4/26/2017				0.0091	0.029
8/10/2017				0.013	0.038
3/29/2018				0.018	0.048
6/14/2018				0.015	0.034
10/4/2018				0.013	0.039
2/27/2019				0.014	
2/28/2019					0.037
4/3/2019				0.015	0.035
9/19/2019				0.014	0.036
2/5/2020					0.034
2/7/2020				0.014	
3/19/2020				0.015	0.039
9/22/2020				0.013	
9/23/2020					0.033
2/3/2021				0.014	
2/4/2021					0.035
3/8/2021			0.0046 (J)		
3/9/2021	<0.005	0.0084			
3/11/2021				0.013	
3/12/2021					0.034
4/7/2021	<0.005	0.0077			
4/8/2021			0.0044 (J)		
8/26/2021	<0.005	0.0076	0.0044 (J)	0.013	0.03
1/11/2022	<0.005	0.0091	0.0043 (J)		
3/3/2022		0.0066		0.014	0.03
3/4/2022	0.0015 (J)		0.0035 (J)		
6/6/2022	0.002 (J)	0.0044 (J)			
6/7/2022			0.004 (J)		
8/16/2022				0.014	
8/17/2022	0.0017 (J)		0.0036 (J)		0.028
8/18/2022		0.0036 (J)			
2/15/2023	<0.005	0.0068	0.0031 (J)		0.033
2/16/2023				0.01	
8/18/2023			<0.005	0.0084	
8/21/2023	<0.005	0.0022 (J)			0.03
Mean	0.003911	0.006267	0.003822	0.01613	0.03448
Std. Dev.	0.001638	0.002344	0.0007032	0.009439	0.004867
Upper Lim.	0.005	0.008529	0.004501	0.015	0.03696
Lower Lim.	0.0015	0.004004	0.003143	0.013	0.032

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0002					<0.0002
5/19/2016		<0.0002	<0.0002	<0.0002		
7/19/2016						9.3E-05 (J)
7/20/2016	8.2E-05 (J)	8.2E-05 (J)	0.00011 (J)	8.1E-05 (J)		
9/14/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
11/10/2016				8.3E-05 (J)		8.5E-05 (J)
11/11/2016	8.5E-05 (J)	0.00011 (J)	7.9E-05 (J)			
1/24/2017						<0.0002
1/27/2017		<0.0002	<0.0002	<0.0002		
2/6/2017	8.3E-05 (J)					
2/8/2017					<0.0002	
2/23/2017					<0.0002	
3/14/2017						7.1E-05 (J)
3/15/2017	0.00013 (J)	<0.0002	0.00018 (J)	<0.0002		
3/17/2017					0.00013 (J)	
4/11/2017					<0.0002	
4/25/2017						<0.0002
4/26/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
5/17/2017					<0.0002	
6/7/2017					<0.0002	
7/11/2017					<0.0002	
8/9/2017				<0.0002		<0.0002
8/10/2017	<0.0002	<0.0002	<0.0002			
3/29/2018		<0.0002	0.00011 (J)	<0.0002	<0.0002	
3/30/2018	<0.0002					8.6E-05 (J)
6/14/2018	<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	
2/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/7/2020						<0.0002
3/18/2020	<0.0002	<0.0002	<0.0002			<0.0002
3/19/2020				<0.0002	<0.0002	
9/23/2020	<0.0002		<0.0002			<0.0002
9/24/2020		<0.0002		<0.0002	<0.0002	
2/3/2021		<0.0002	<0.0002			
2/4/2021	<0.0002			<0.0002	<0.0002	<0.0002
3/3/2022	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/4/2022			<0.0002			
8/16/2022		<0.0002				
8/17/2022						<0.0002
8/18/2022			<0.0002	<0.0002		
8/19/2022	<0.0002				<0.0002	
2/15/2023						<0.0002
2/16/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/24/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Mean	0.000179	0.0001896	0.0001839	0.0001882	0.0001965	0.0001767
Std. Dev.	4.408E-05	3.233E-05	3.706E-05	3.632E-05	1.565E-05	4.785E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00013	0.00011	0.00018	8.3E-05	0.00013	9.3E-05

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.0002	<0.0002				
7/19/2016	<0.0002					
7/20/2016		7.4E-05 (J)				
9/14/2016	<0.0002	<0.0002				
11/10/2016	0.00012 (J)	<0.0002				
11/11/2016			7.6E-05 (J)			
1/20/2017		<0.0002				
1/24/2017	7E-05 (J)					
2/6/2017			0.00012 (J)			
3/14/2017		<0.0002				
3/15/2017	<0.0002		<0.0002			
4/11/2017			<0.0002			
4/25/2017	0.00019 (J)	<0.0002				
4/26/2017			<0.0002			
6/7/2017			<0.0002			
7/11/2017			<0.0002			
8/9/2017	<0.0002	<0.0002				
8/10/2017			<0.0002			
3/29/2018	<0.0002		<0.0002			
3/30/2018		<0.0002				
6/14/2018	<0.0002	<0.0002	<0.0002			
10/4/2018	<0.0002	<0.0002	<0.0002			
2/26/2019		<0.0002				
2/27/2019	<0.0002					
2/28/2019			<0.0002			
2/7/2020	<0.0002	<0.0002	<0.0002			
3/18/2020	<0.0002	<0.0002				
5/4/2020			<0.0002			
9/23/2020	<0.0002	<0.0002	<0.0002			
2/3/2021			<0.0002			
2/4/2021	<0.0002	<0.0002				
8/26/2021				0.00033	0.0002	0.00018 (J)
1/11/2022					<0.0002	<0.0002
1/12/2022				<0.0002		
3/3/2022	<0.0002		<0.0002		<0.0002	
3/4/2022		<0.0002		<0.0002		<0.0002
6/6/2022					<0.0002	
6/7/2022				<0.0002		<0.0002
8/16/2022		<0.0002			<0.0002	
8/17/2022	<0.0002		<0.0002			
8/18/2022				<0.0002		
8/19/2022						<0.0002
2/15/2023	<0.0002					<0.0002
2/16/2023		<0.0002	<0.0002	<0.0002	<0.0002	
8/18/2023				<0.0002		
8/22/2023	<0.0002					
8/24/2023		<0.0002	<0.0002		<0.0002	<0.0002
Mean	0.000189	0.0001937	0.0001898	0.0002186	0.0002	0.0001971
Std. Dev.	3.323E-05	2.817E-05	3.22E-05	4.914E-05	1.9E-12	7.559E-06
Upper Lim.	0.0002	0.0002	0.0002	0.00033	0.0002	0.0002
Lower Lim.	0.00019	7.4E-05	0.00012	0.0002	0.0002	0.00018

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016				<0.0002	<0.0002
7/20/2016				<0.0002	<0.0002
9/14/2016					<0.0002
9/15/2016				0.00011 (J)	
11/14/2016				<0.0002	
2/6/2017				7.8E-05 (J)	
2/9/2017					<0.0002
3/15/2017				0.00013 (J)	0.00013 (J)
4/11/2017					<0.0002
4/26/2017				<0.0002	<0.0002
8/10/2017				<0.0002	<0.0002
3/29/2018				<0.0002	<0.0002
6/14/2018				<0.0002	<0.0002
10/4/2018				<0.0002	<0.0002
2/27/2019				<0.0002	
2/28/2019					<0.0002
2/5/2020					<0.0002
2/7/2020				<0.0002	
3/19/2020				<0.0002	<0.0002
9/22/2020				<0.0002	
9/23/2020					<0.0002
2/3/2021				<0.0002	
2/4/2021					<0.0002
8/26/2021	0.00022	0.00026	0.0019		
1/11/2022	<0.0002	<0.0002	<0.0002		
3/3/2022		<0.0002		<0.0002	<0.0002
3/4/2022	<0.0002		<0.0002		
6/6/2022	<0.0002	<0.0002			
6/7/2022			<0.0002		
8/16/2022				<0.0002	
8/17/2022	<0.0002		<0.0002		<0.0002
8/18/2022		<0.0002			
2/15/2023	<0.0002	<0.0002	<0.0002		<0.0002
2/16/2023				<0.0002	
8/22/2023			<0.0002	<0.0002	
8/24/2023	<0.0002	<0.0002			<0.0002
Mean	0.0002029	0.0002086	0.0004429	0.0001859	0.0001965
Std. Dev.	7.559E-06	2.268E-05	0.0006425	3.547E-05	1.565E-05
Upper Lim.	0.00022	0.00026	0.0019	0.0002	0.0002
Lower Lim.	0.0002	0.0002	0.0002	0.00013	0.00013

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.015					0.0153
5/19/2016		<0.015	<0.015	0.00491 (J)		
7/19/2016						0.0093 (J)
7/20/2016	<0.015	<0.015	0.00095 (J)	0.0025 (J)		
9/14/2016	0.00091 (J)	<0.015	0.0009 (J)	0.0028 (J)		0.012 (J)
11/10/2016				0.0016 (J)		0.0065 (J)
11/11/2016	<0.015	<0.015	<0.015			
1/24/2017						0.0049 (J)
1/27/2017		<0.015	<0.015	0.0023 (J)		
2/6/2017	<0.015					
2/8/2017					<0.015	
2/23/2017					<0.015	
3/14/2017						0.0034 (J)
3/15/2017	<0.015	<0.015	<0.015	0.0022 (J)		
3/17/2017					<0.015	
4/11/2017					<0.015	
4/25/2017						0.004 (J)
4/26/2017	<0.015	<0.015	<0.015	0.0019 (J)	<0.015	
5/17/2017					<0.015	
6/7/2017					0.001 (J)	
7/11/2017					<0.015	
8/9/2017				0.0028 (J)		0.0042 (J)
8/10/2017	0.00093 (J)	0.0011 (J)	0.0046 (J)			
3/29/2018		<0.015	<0.015	0.0028 (J)	<0.015	
3/30/2018	<0.015					0.0049 (J)
6/14/2018	<0.015	<0.015	<0.015	0.0018 (J)	<0.015	0.0056 (J)
10/3/2018						0.0041 (J)
10/4/2018	<0.015	<0.015	<0.015	<0.015	<0.015	
2/27/2019	<0.015	<0.015	0.00063 (J)	0.0019 (J)	<0.015	0.0061
4/3/2019		<0.015	<0.015	<0.015	<0.015	
4/4/2019	<0.015					0.0039 (J)
9/18/2019				0.0021 (J)	<0.015	0.0052
9/19/2019	<0.015	<0.015	0.00073 (J)			
2/5/2020	<0.015	<0.015	<0.015	0.0012 (J)	<0.015	
2/7/2020						0.0024 (J)
3/18/2020	<0.015	<0.015	<0.015			0.002 (J)
3/19/2020				0.0018 (J)	<0.015	
9/23/2020	<0.015		<0.015			0.0031 (J)
9/24/2020		0.0017 (J)		<0.015	<0.015	
2/3/2021		<0.015	<0.015			
2/4/2021	<0.015			0.0012 (J)	<0.015	0.0022 (J)
3/11/2021	<0.015			0.0013 (J)	<0.015	
3/12/2021		<0.015	0.00062 (J)			0.0019 (J)
8/25/2021		<0.015	<0.015	0.00092 (J)	<0.015	
8/26/2021	<0.015					0.0029 (J)
3/3/2022	<0.015	<0.015		0.00094 (J)	<0.015	0.0025 (J)
3/4/2022			<0.015			
8/16/2022		<0.015				
8/17/2022						0.0025 (J)
8/18/2022			<0.015	0.00087 (J)		
8/19/2022	<0.015				<0.015	
2/15/2023						0.0027 (J)

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	<0.015	<0.015	<0.015	0.0013 (J)	<0.015	
8/21/2023	<0.015	<0.015	<0.015	0.0012 (J)	<0.015	0.003 (J)
Mean	0.01383	0.01387	0.0116	0.002618	0.01442	0.004775
Std. Dev.	0.003975	0.003841	0.006058	0.002076	0.002858	0.003267
Upper Lim.	0.015	0.015	0.015	0.002905	0.015	0.005682
Lower Lim.	0.00093	0.0017	0.0046	0.001507	0.001	0.003107

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-9
5/18/2016	0.00526 (J)					
5/19/2016						0.00762 (J)
7/20/2016	0.0066 (J)					0.0084 (J)
9/14/2016	0.0081 (J)					0.0071 (J)
11/10/2016	0.0076 (J)					
11/11/2016		<0.015				
1/20/2017	0.0094 (J)					
2/6/2017		0.001 (J)				
2/9/2017						0.018
3/14/2017	0.0044 (J)					
3/15/2017		<0.015				0.0057 (J)
4/11/2017		<0.015				0.0047 (J)
4/25/2017	0.0074 (J)					
4/26/2017		<0.015				0.004 (J)
6/7/2017		0.0015 (J)				
7/11/2017		<0.015				
8/9/2017	0.0066 (J)					
8/10/2017		0.0016 (J)				0.0046 (J)
3/29/2018		0.0012 (J)				0.0048 (J)
3/30/2018	0.0024 (J)					
6/14/2018	0.0026 (J)	0.0014 (J)				0.0046 (J)
10/4/2018	0.00085 (J)	<0.015				0.003 (J)
2/26/2019	0.0032 (J)					
2/28/2019		0.0013 (J)				0.0053
4/2/2019		<0.015				
4/3/2019						0.0026 (J)
4/4/2019	0.002 (J)					
9/18/2019	0.0026 (J)	0.0011 (J)				
9/19/2019						0.0048 (J)
2/5/2020						0.0044 (J)
2/7/2020	0.0025 (J)	0.0014 (J)				
3/18/2020	0.0024 (J)					
3/19/2020						0.0042 (J)
5/4/2020		0.0013 (J)				
9/23/2020	0.0027 (J)	0.0013 (J)				0.0027 (J)
2/3/2021		0.0013 (J)				
2/4/2021	0.0025 (J)					0.003 (J)
3/11/2021	0.0022 (J)	0.0012 (J)				
3/12/2021						0.003 (J)
8/25/2021	0.0022 (J)					
8/26/2021		0.0011 (J)	0.00079 (J)	0.044	<0.015	0.0028 (J)
1/11/2022				0.037	<0.015	
1/12/2022			0.00062 (J)			
3/3/2022		0.0013 (J)		0.036		0.0027 (J)
3/4/2022	0.0021 (J)		<0.015		0.00084 (J)	
6/6/2022				0.032		
6/7/2022			<0.015		<0.015	
8/16/2022	0.0024 (J)			0.042		
8/17/2022		0.001 (J)				0.0027 (J)
8/18/2022			<0.015			
8/19/2022					<0.015	
2/15/2023					<0.015	0.0025 (J)

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-9
2/16/2023	0.0022 (J)	0.0014 (J)	<0.015	0.034		
8/15/2023			<0.015			
8/21/2023	0.0023 (J)	0.0013 (J)		0.029	<0.015	0.0031 (J)
Mean	0.003855	0.005279	0.01092	0.03629	0.01298	0.004847
Std. Dev.	0.002412	0.006373	0.006975	0.005314	0.005352	0.003248
Upper Lim.	0.00526	0.0016	0.015	0.0426	0.015	0.0053
Lower Lim.	0.0023	0.0012	0.00062	0.02997	0.00084	0.0028

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	<0.005				<0.005	0.00735
5/19/2016		<0.005	<0.005			
7/19/2016					<0.005	0.0075
7/20/2016	<0.005	<0.005	<0.005			
9/14/2016	<0.005	<0.005	<0.005		<0.005	0.0091
11/10/2016					<0.005	0.0056
11/11/2016	<0.005	<0.005	<0.005			
1/24/2017					<0.005	0.012
1/27/2017		<0.005	<0.005			
2/6/2017	<0.005					
2/8/2017				<0.005		
2/23/2017				<0.005		
3/14/2017					<0.005	
3/15/2017	<0.005	<0.005	<0.005			0.012
3/17/2017				<0.005		
4/11/2017				<0.005		
4/25/2017					<0.005	0.013
4/26/2017	<0.005	<0.005	<0.005	<0.005		
5/17/2017				<0.005		
6/7/2017				<0.005		
7/11/2017				<0.005		
8/9/2017					<0.005	0.016
8/10/2017	0.00031 (J)	0.00049 (J)	0.0021			
3/29/2018		<0.005	<0.005	0.0003 (J)		0.016
3/30/2018	<0.005				<0.005	
6/14/2018	<0.005	<0.005	<0.005	<0.005	0.0005 (J)	0.012
10/3/2018					<0.005	
10/4/2018	<0.005	<0.005	<0.005	<0.005		0.013
2/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	0.0081
4/3/2019		<0.005	<0.005	<0.005		
4/4/2019	<0.005				<0.005	0.0091
9/18/2019				<0.005	<0.005	0.0044 (J)
9/19/2019	<0.005	<0.005	<0.005			
2/5/2020	<0.005	<0.005	<0.005	<0.005		
2/7/2020					<0.005	0.0036 (J)
3/18/2020	<0.005	<0.005	<0.005		<0.005	0.0046 (J)
3/19/2020				<0.005		
9/23/2020	<0.005		<0.005		<0.005	0.0028 (J)
9/24/2020		<0.005		<0.005		
2/3/2021		<0.005	<0.005			
2/4/2021	<0.005			<0.005	<0.005	0.0023 (J)
3/11/2021	<0.005			<0.005		0.0023 (J)
3/12/2021		<0.005	<0.005		<0.005	
8/25/2021		<0.005	<0.005	<0.005		0.0019 (J)
8/26/2021	<0.005				<0.005	
3/3/2022	<0.005	<0.005		<0.005	<0.005	0.0018 (J)
3/4/2022			<0.005			
8/16/2022		<0.005				
8/17/2022					<0.005	<0.005
8/18/2022			<0.005			
8/19/2022	<0.005			<0.005		
2/15/2023					<0.005	0.0019 (J)

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-14A	WGWC-15	WGWC-16
2/16/2023	<0.005	<0.005	<0.005	<0.005		
8/18/2023						0.0018 (J)
8/21/2023	<0.005	<0.005	<0.005	<0.005	<0.005	
Mean	0.004805	0.004812	0.004879	0.004804	0.004812	0.00711
Std. Dev.	0.0009573	0.0009206	0.000592	0.0009594	0.0009186	0.004815
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.009568
Lower Lim.	0.00031	0.00049	0.0021	0.0003	0.0005	0.004653

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-19	WGWC-20	WGWC-22	WGWC-23	WGWC-24	WGWC-8
5/19/2016						0.00518
7/20/2016						0.0038
9/15/2016						0.0034
11/11/2016	<0.005					
11/14/2016						0.0033
2/6/2017	<0.005					0.0033
3/15/2017	<0.005					0.003
4/11/2017	<0.005					
4/26/2017	<0.005					0.0032
6/7/2017	<0.005					
7/11/2017	<0.005					
8/10/2017	0.00036 (J)					0.0031
3/29/2018	<0.005					0.0034
6/14/2018	<0.005					0.0031
10/4/2018	<0.005					0.0033
2/27/2019						0.0035
2/28/2019	<0.005					
4/2/2019	<0.005					
4/3/2019						0.0031
9/18/2019	<0.005					
9/19/2019						0.0021 (J)
2/7/2020	<0.005					0.0048 (J)
3/19/2020						0.0037 (J)
5/4/2020	<0.005					
9/22/2020						0.0039 (J)
9/23/2020	<0.005					
2/3/2021	<0.005					0.0036 (J)
3/11/2021	<0.005					0.0038 (J)
8/26/2021	<0.005	0.0016 (J)	0.0049 (J)	0.002 (J)	<0.005	0.0037 (J)
1/11/2022			0.0065	0.0024 (J)	<0.005	
1/12/2022		<0.005				
3/3/2022	<0.005				0.00077 (J)	0.0038 (J)
3/4/2022		0.0014 (J)	0.0072	0.002 (J)		
6/6/2022				0.0018 (J)	<0.005	
6/7/2022		0.0014 (J)	0.0047 (J)			
8/16/2022						0.0075
8/17/2022	<0.005			0.0013 (J)		
8/18/2022		0.0027 (J)			<0.005	
8/19/2022			0.0035 (J)			
2/15/2023			0.0077	0.0026 (J)	<0.005	
2/16/2023	<0.005	0.0017 (J)				0.0033 (J)
8/15/2023		0.0016 (J)				
8/18/2023						0.0037 (J)
8/21/2023	<0.005		0.0038 (J)	0.0024 (J)	<0.005	
Mean	0.004807	0.001843	0.005471	0.002071	0.004396	0.003691
Std. Dev.	0.0009471	0.0005318	0.001664	0.0004424	0.001599	0.001003
Upper Lim.	0.005	0.0027	0.007448	0.002597	0.005	0.0038
Lower Lim.	0.00036	0.0014	0.003495	0.001546	0.00077	0.0032

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-9
5/19/2016	0.00228
7/20/2016	0.0016
9/14/2016	0.0024
2/9/2017	0.0023
3/15/2017	0.0031
4/11/2017	0.0023
4/26/2017	0.0019
8/10/2017	0.0021
3/29/2018	0.0021
6/14/2018	0.0025
10/4/2018	0.002
2/28/2019	0.0027
4/3/2019	0.0019
9/19/2019	0.0026 (J)
2/5/2020	0.0033 (J)
3/19/2020	0.0033 (J)
9/23/2020	0.0029 (J)
2/4/2021	0.003 (J)
3/12/2021	0.0034 (J)
8/26/2021	0.0028 (J)
3/3/2022	0.0021 (J)
8/17/2022	0.0022 (J)
2/15/2023	0.0037 (J)
8/21/2023	0.0036 (J)
Mean	0.002587
Std. Dev.	0.0005882
Upper Lim.	0.002887
Lower Lim.	0.002287

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals

Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-14A	WGWC-16	WGWC-19	WGWC-22
5/18/2016	<0.001			<0.001		
5/19/2016		<0.001				
7/19/2016				8.5E-05 (J)		
7/20/2016	<0.001	<0.001				
9/14/2016	<0.001	<0.001		0.00017 (J)		
11/10/2016				0.00017 (J)		
11/11/2016	<0.001	<0.001			<0.001	
1/24/2017				0.00023 (J)		
1/27/2017		<0.001				
2/6/2017	<0.001				<0.001	
2/8/2017			0.00011 (J)			
2/23/2017			0.00012 (J)			
3/15/2017	<0.001	<0.001		0.00021 (J)	<0.001	
3/17/2017			<0.001			
4/11/2017			<0.001		<0.001	
4/25/2017				0.00024 (J)		
4/26/2017	<0.001	<0.001	<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				0.0002 (J)		
8/10/2017	<0.001	<0.001			<0.001	
3/29/2018		<0.001	0.0002 (J)	0.00019 (J)	<0.001	
3/30/2018	8.5E-05 (J)					
6/14/2018	<0.001	<0.001	0.00014 (J)	0.00017 (J)	<0.001	
10/4/2018	<0.001	<0.001	0.00013 (J)	0.00015 (J)	<0.001	
2/27/2019	<0.001	<0.001	0.00016 (J)	0.00015 (J)		
2/28/2019					<0.001	
4/2/2019					<0.001	
4/3/2019		<0.001	0.00012 (J)			
4/4/2019	<0.001			9.5E-05 (J)		
9/18/2019			<0.001	<0.001	<0.001	
9/19/2019	<0.001	<0.001				
2/5/2020	<0.001	<0.001	0.00022 (J)			
2/7/2020				<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	
9/24/2020		<0.001	<0.001			
2/3/2021		0.00016 (J)			0.00018 (J)	
2/4/2021	<0.001		0.00021 (J)	<0.001		
3/11/2021	<0.001		0.00019 (J)	<0.001	<0.001	
3/12/2021		<0.001				
8/25/2021		<0.001	<0.001	<0.001		
8/26/2021	<0.001				<0.001	<0.001
1/11/2022						<0.001
3/3/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
3/4/2022						0.00047 (J)
6/7/2022						<0.001
8/16/2022		<0.001				
8/17/2022				<0.001	<0.001	

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-14A	WGWC-16	WGWC-19	WGWC-22
8/19/2022	<0.001		<0.001			<0.001
2/15/2023				<0.001		<0.001
2/16/2023	<0.001	<0.001	<0.001		<0.001	
8/18/2023				<0.001		
8/21/2023	<0.001	<0.001	<0.001		<0.001	<0.001
Mean	0.0009619	0.000965	0.0006154	0.0005858	0.0009658	0.0009243
Std. Dev.	0.0001868	0.0001715	0.0004279	0.0004244	0.0001674	0.0002003
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	8.5E-05	0.00016	0.00016	0.00017	0.00018	0.00047

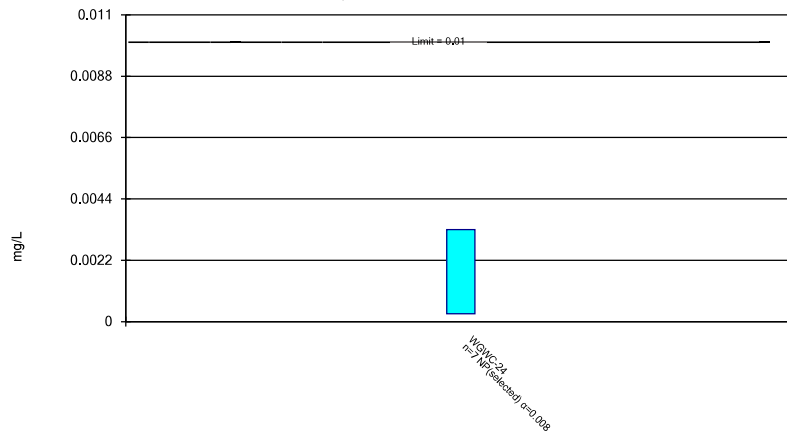
Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals
Plant Wansley Data: Wansley Ash Pond

	WGWC-24
8/26/2021	0.00072 (J)
1/11/2022	0.00062 (J)
3/3/2022	0.0006 (J)
6/6/2022	0.00052 (J)
8/18/2022	0.0003 (J)
2/15/2023	0.00045 (J)
8/21/2023	0.00028 (J)
Mean	0.0004986
Std. Dev.	0.0001654
Upper Lim.	0.000695
Lower Lim.	0.0003021

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Arsenic Analysis Run 10/12/2023 4:44 PM View: Confidence Intervals Non-Parametric
Plant Wansley Data: Wansley Ash Pond

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/12/2023 4:45 PM View: Confidence Intervals Non-Parametric
Plant Wansley Data: Wansley Ash Pond

	WGWC-24
8/26/2021	0.0033
1/11/2022	0.0017
3/3/2022	0.0029
6/6/2022	0.00054 (J)
8/18/2022	0.00028 (J)
2/15/2023	<0.001
8/21/2023	<0.001
Mean	0.001531
Std. Dev.	0.001165
Upper Lim.	0.0033
Lower Lim.	0.00028

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/10/2023, 12:53 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	WGWA-1 (bg)	-0.000079	-163	-81	Yes	24	4.167	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-18 (bg)	-0.0002994	-123	-81	Yes	24	8.333	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-2 (bg)	-0.0001023	-191	-81	Yes	24	8.333	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-5 (bg)	-0.0003181	-100	-71	Yes	22	4.545	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWC-19	0.001516	95	81	Yes	24	0	n/a	n/a	0.05	NP

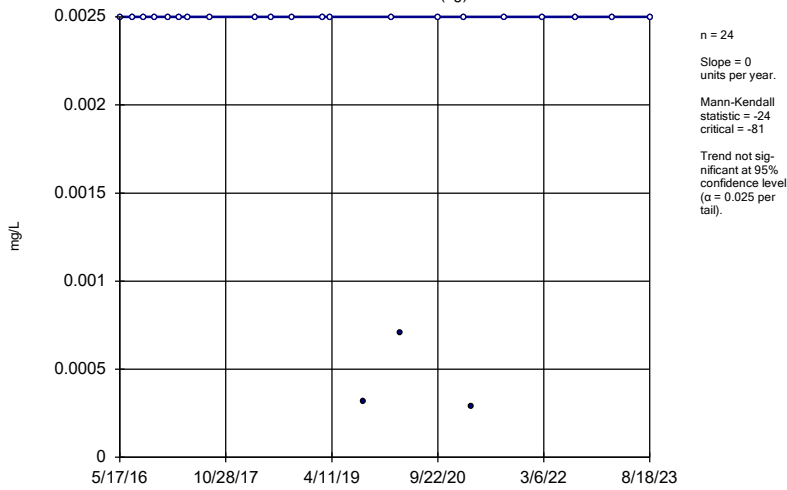
Appendix IV Trend Tests - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/10/2023, 12:53 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	WGWA-1 (bg)	0	-24	-81	No	24	87.5	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-18 (bg)	0	0	81	No	24	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-2 (bg)	0	-22	-81	No	24	87.5	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-3 (bg)	0	-21	-81	No	24	91.67	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-4 (bg)	0	0	81	No	24	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-5 (bg)	0	-2	-76	No	23	95.65	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-6 (bg)	0	-3	-81	No	24	95.83	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-7 (bg)	0	-5	-81	No	24	95.83	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWC-20	0	0	15	No	7	0	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWC-24	-0.005658	-14	-15	No	7	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-1 (bg)	-0.000079	-163	-81	Yes	24	4.167	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-18 (bg)	-0.0002994	-123	-81	Yes	24	8.333	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-2 (bg)	-0.0001023	-191	-81	Yes	24	8.333	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-3 (bg)	0	0	81	No	24	100	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-4 (bg)	0	1	81	No	24	95.83	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-5 (bg)	-0.0003181	-100	-71	Yes	22	4.545	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-6 (bg)	0	0	81	No	24	83.33	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-7 (bg)	0	-15	-81	No	24	66.67	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWC-24	-0.0529	-15	-15	No	7	0	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-1 (bg)	-0.00004078	-45	-76	No	23	39.13	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-18 (bg)	0	12	76	No	23	86.96	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-2 (bg)	-0.00008441	-20	-76	No	23	0	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-3 (bg)	0	16	76	No	23	86.96	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-4 (bg)	0.00002309	13	76	No	23	4.348	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-5 (bg)	0	0	66	No	21	95.24	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-6 (bg)	0.00008795	29	71	No	22	9.091	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-7 (bg)	0	8	76	No	23	95.65	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWC-19	0.001516	95	81	Yes	24	0	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWC-20	0.008103	9	20	No	9	0	n/a	n/a	0.05	NP

Sen's Slope Estimator

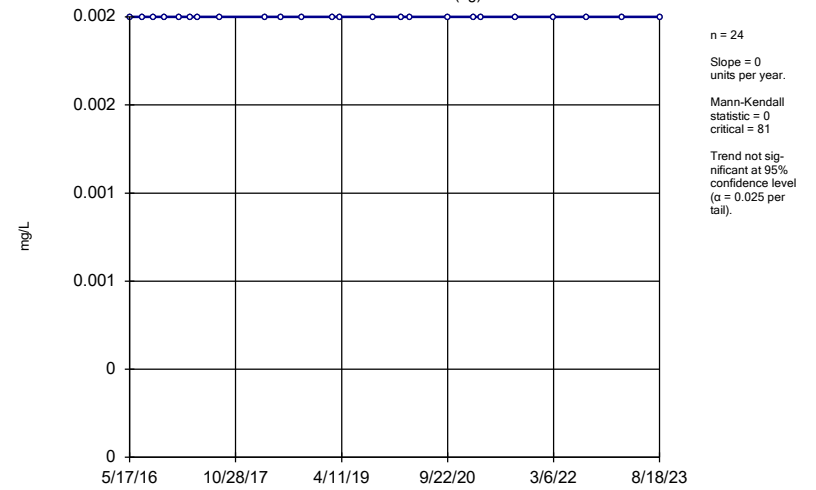
WGWA-1 (bg)



Constituent: Beryllium Analysis Run 10/10/2023 12:51 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

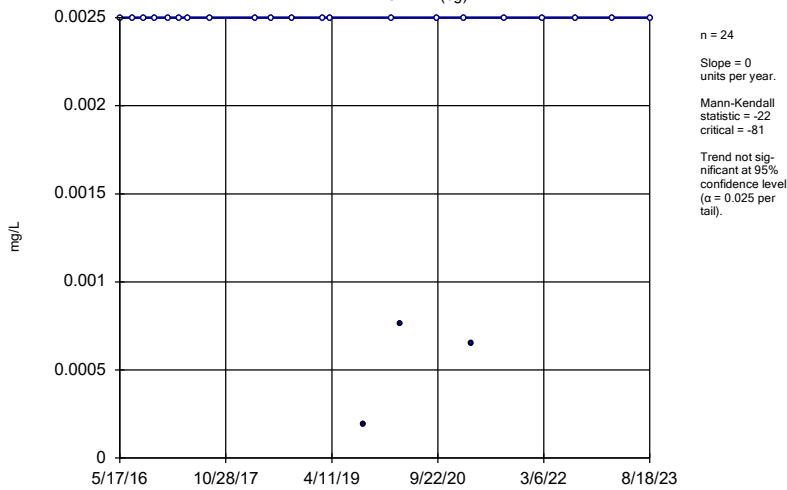
WGWA-18 (bg)



Constituent: Beryllium Analysis Run 10/10/2023 12:51 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

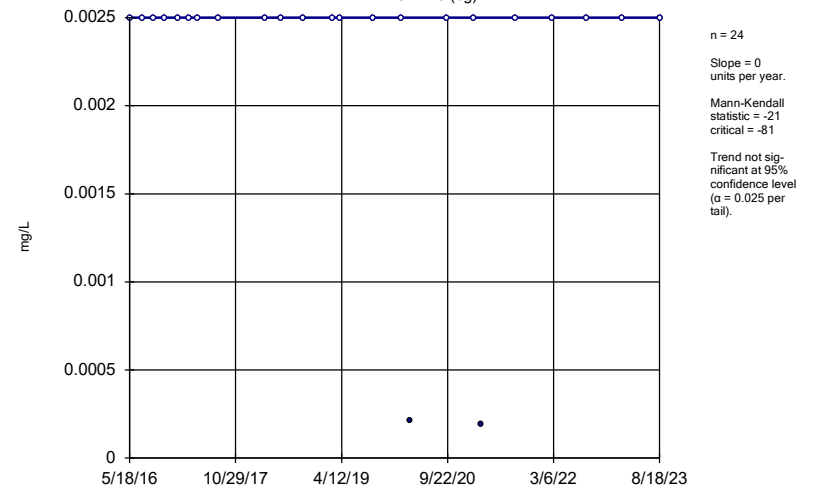
WGWA-2 (bg)



Constituent: Beryllium Analysis Run 10/10/2023 12:51 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

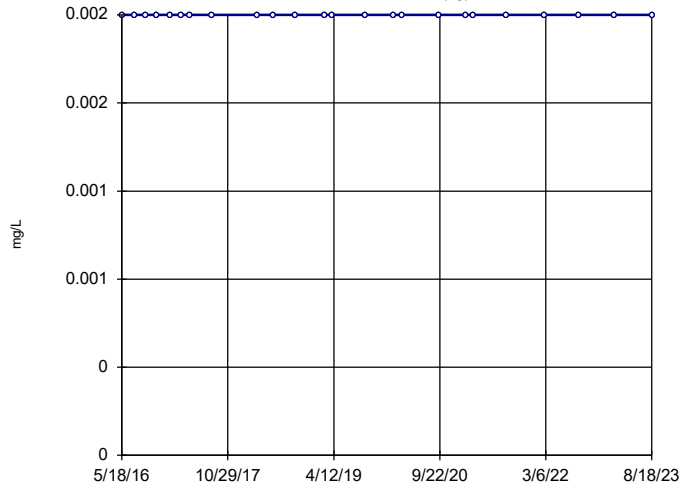
WGWA-3 (bg)



Constituent: Beryllium Analysis Run 10/10/2023 12:51 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-4 (bg)

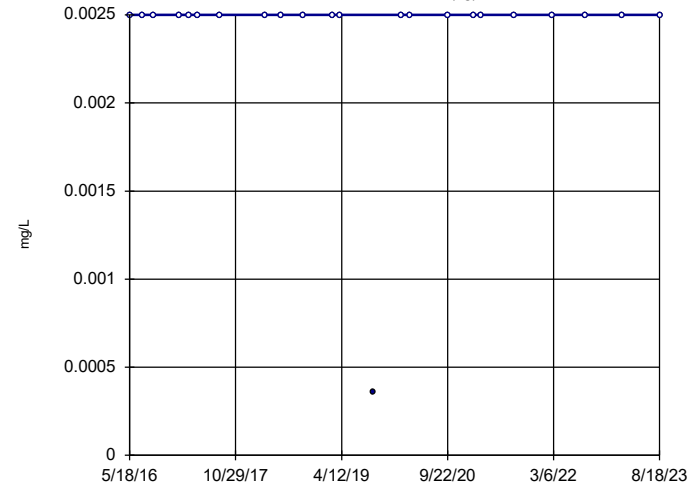


n = 24
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 81
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Beryllium Analysis Run 10/10/2023 12:51 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-5 (bg)

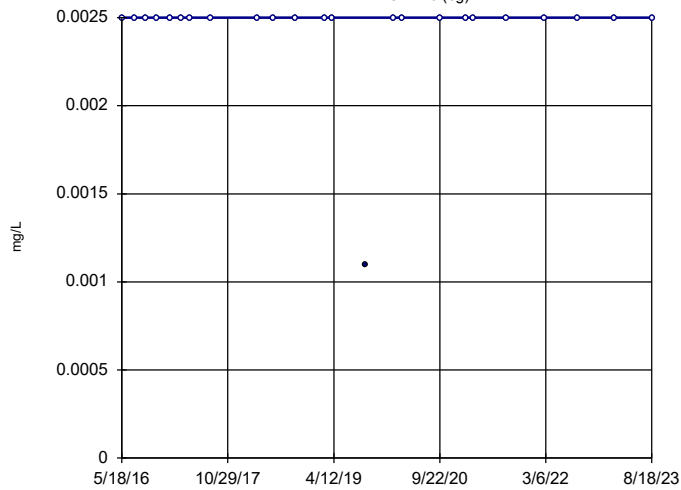


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = -.2
critical = -.76
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Beryllium Analysis Run 10/10/2023 12:51 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-6 (bg)

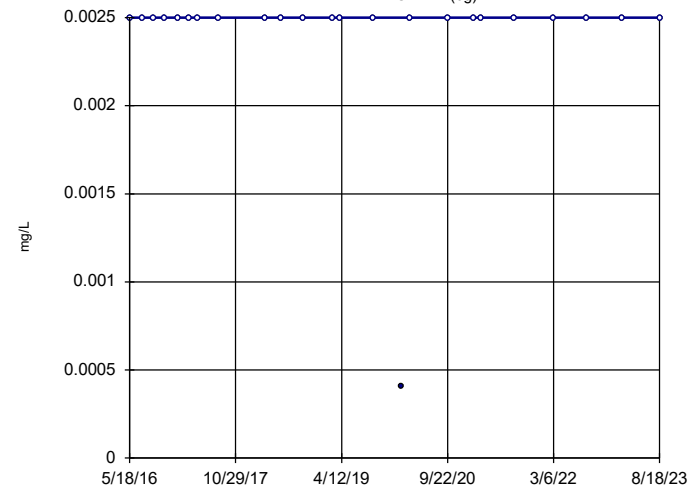


n = 24
Slope = 0
units per year.
Mann-Kendall
statistic = -.3
critical = -.81
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Beryllium Analysis Run 10/10/2023 12:51 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-7 (bg)

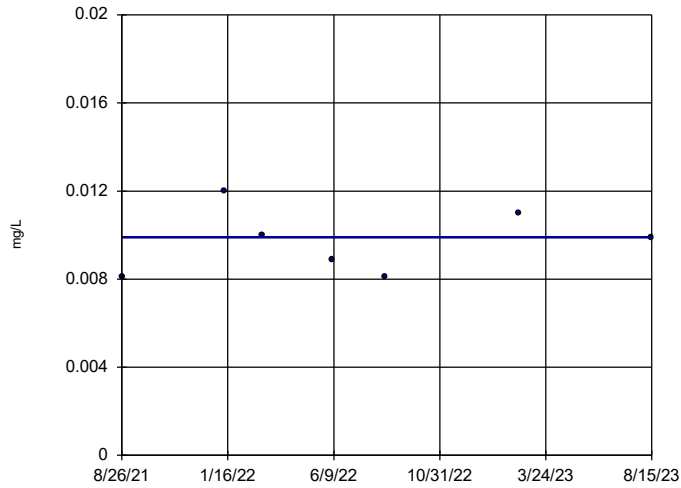


n = 24
Slope = 0
units per year.
Mann-Kendall
statistic = -.5
critical = -.81
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Beryllium Analysis Run 10/10/2023 12:51 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-20

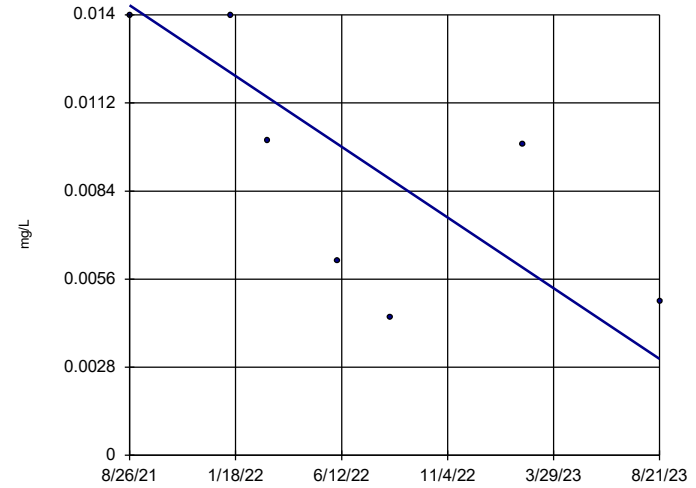


n = 7
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 15
 Trend not sig-
 nificant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Beryllium Analysis Run 10/10/2023 12:51 PM View: Appendix IV Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-24

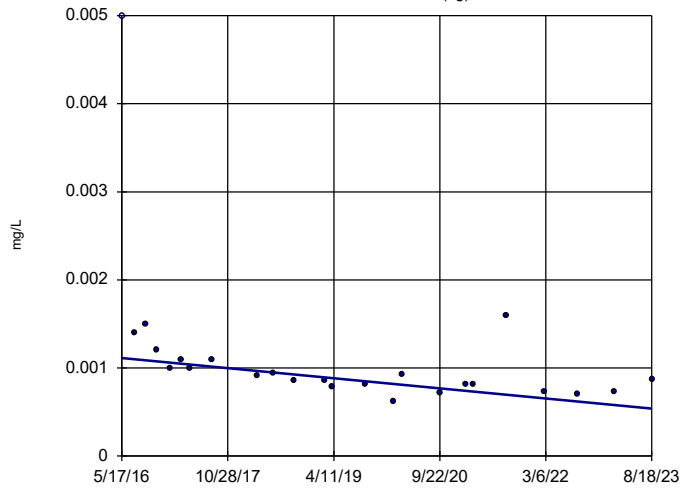


n = 7
 Slope = -0.005658
 units per year.
 Mann-Kendall
 statistic = -14
 critical = -15
 Trend not sig-
 nificant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Beryllium Analysis Run 10/10/2023 12:51 PM View: Appendix IV Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-1 (bg)

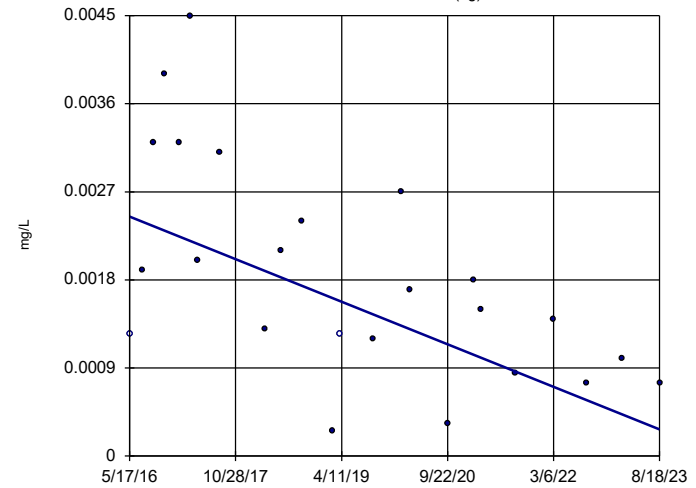


n = 24
 Slope = -0.000079
 units per year.
 Mann-Kendall
 statistic = -163
 critical = -81
 Decreasing trend
 significant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Cobalt Analysis Run 10/10/2023 12:51 PM View: Appendix IV Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-18 (bg)

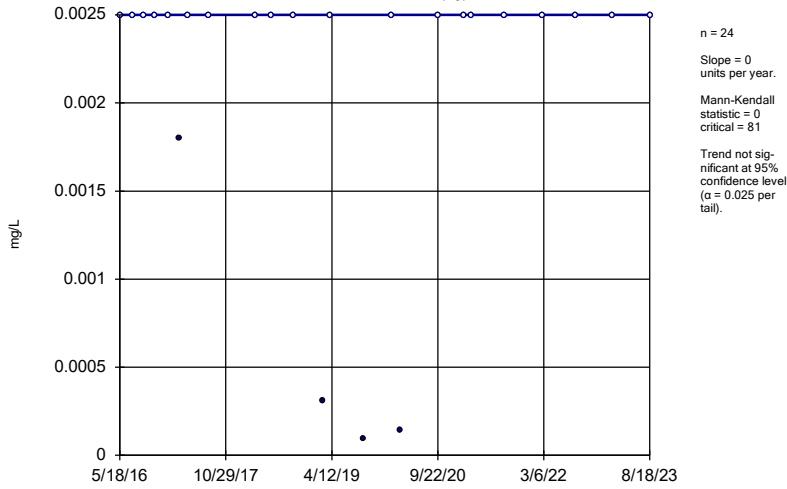


n = 24
 Slope = -0.0002994
 units per year.
 Mann-Kendall
 statistic = -123
 critical = -81
 Decreasing trend
 significant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Cobalt Analysis Run 10/10/2023 12:51 PM View: Appendix IV Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

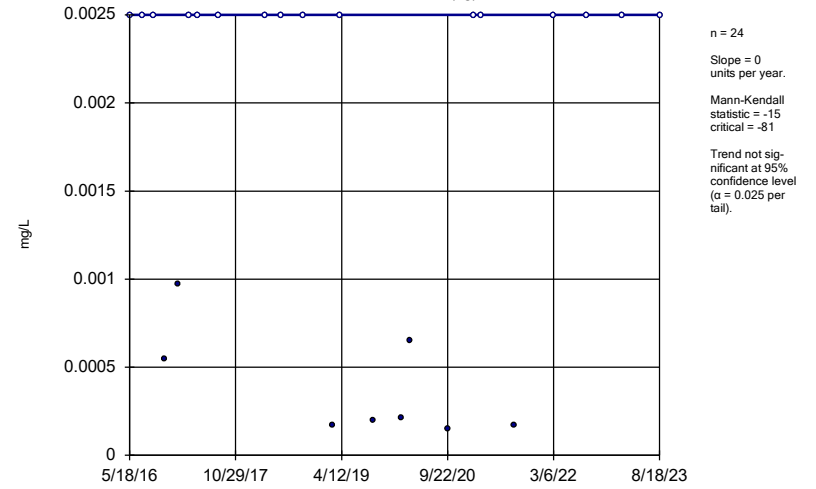
WGWA-6 (bg)



Constituent: Cobalt Analysis Run 10/10/2023 12:51 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

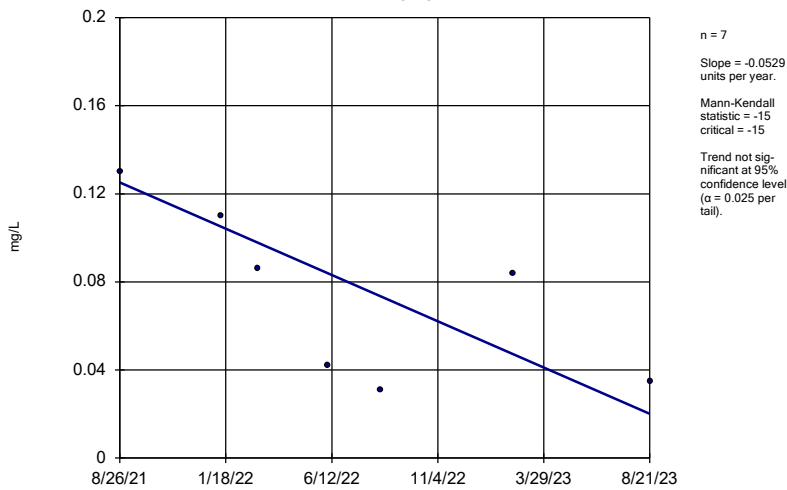
WGWA-7 (bg)



Constituent: Cobalt Analysis Run 10/10/2023 12:51 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

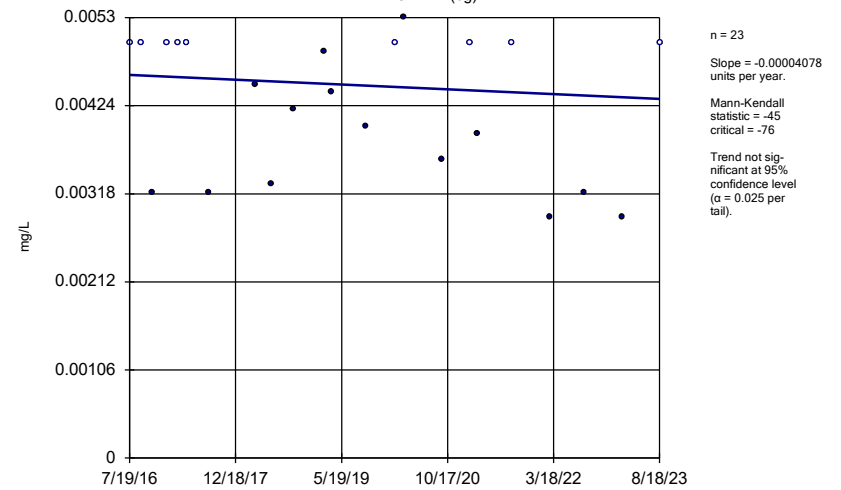
WGWC-24



Constituent: Cobalt Analysis Run 10/10/2023 12:51 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

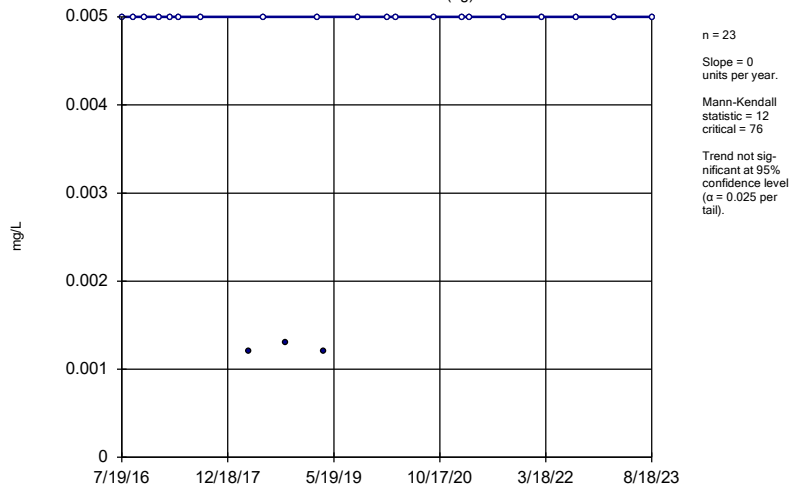
WGWA-1 (bg)



Constituent: Lithium Analysis Run 10/10/2023 12:52 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

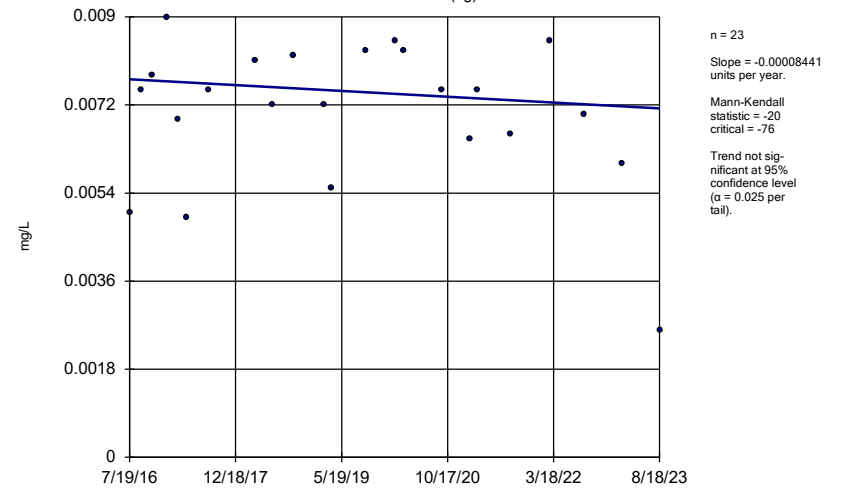
WGWA-18 (bg)



Constituent: Lithium Analysis Run 10/10/2023 12:52 PM View: Appendix IV Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

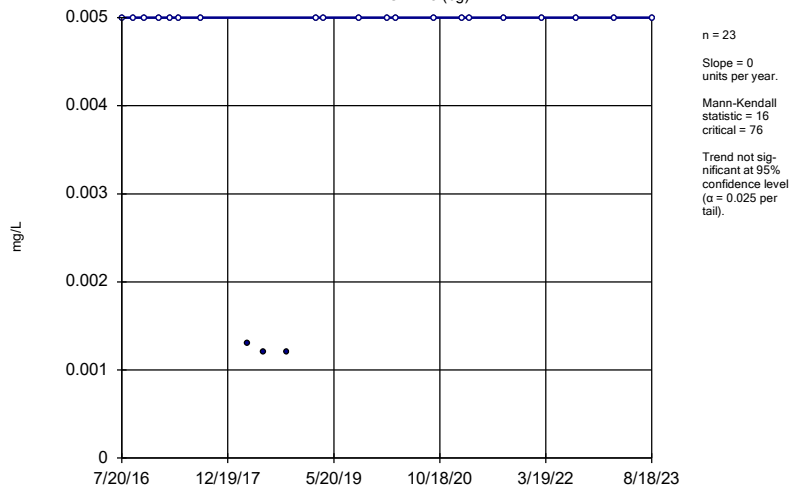
WGWA-2 (bg)



Constituent: Lithium Analysis Run 10/10/2023 12:52 PM View: Appendix IV Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

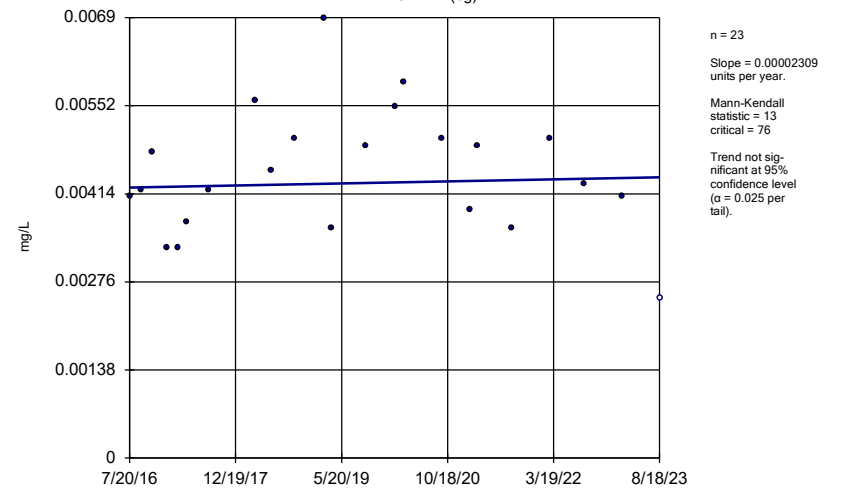
WGWA-3 (bg)



Constituent: Lithium Analysis Run 10/10/2023 12:52 PM View: Appendix IV Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

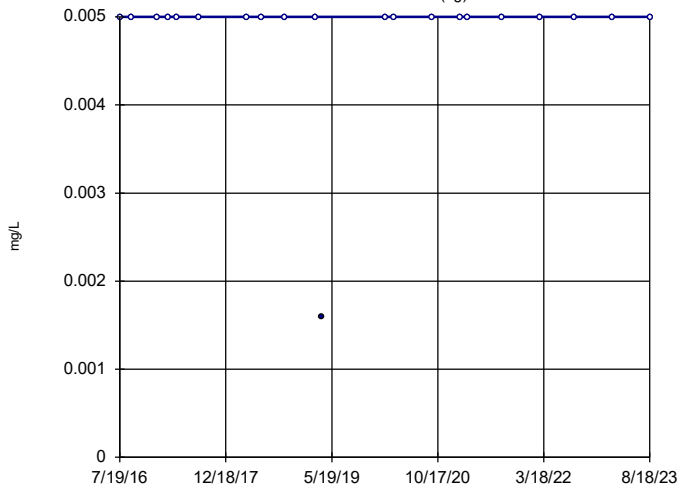
WGWA-4 (bg)



Constituent: Lithium Analysis Run 10/10/2023 12:52 PM View: Appendix IV Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-5 (bg)

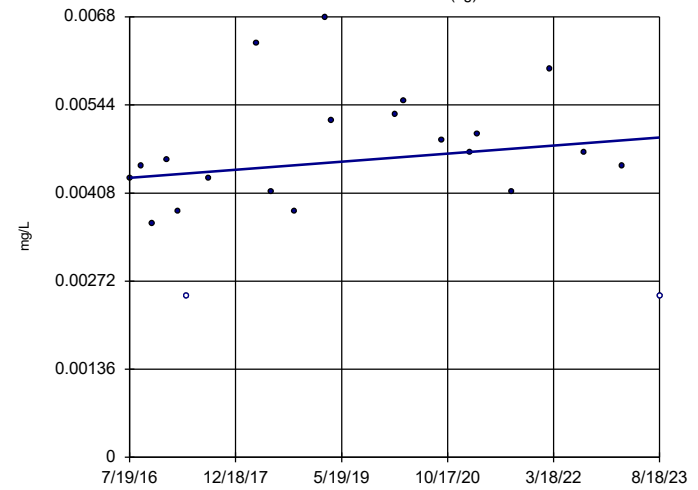


n = 21
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 66
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 10/10/2023 12:52 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-6 (bg)

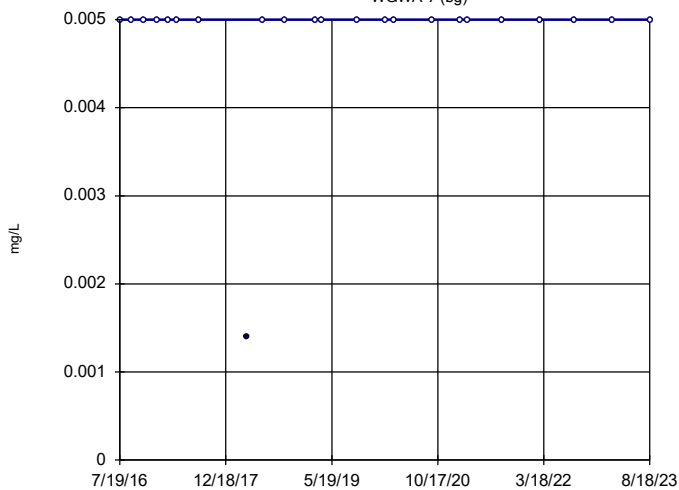


n = 22
Slope = 0.00008795
units per year.
Mann-Kendall
statistic = 29
critical = 71
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 10/10/2023 12:52 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-7 (bg)

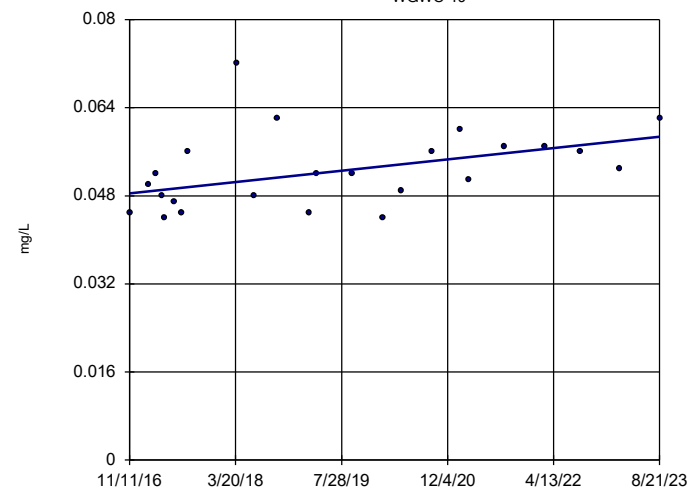


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = 8
critical = 76
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 10/10/2023 12:52 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-19

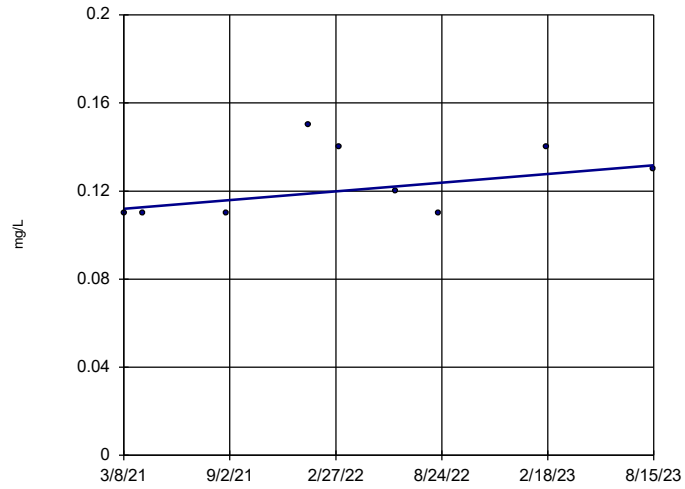


n = 24
Slope = 0.001516
units per year.
Mann-Kendall
statistic = 95
critical = 81
Increasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 10/10/2023 12:52 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-20



n = 9
Slope = 0.008103
units per year.
Mann-Kendall
statistic = 9
critical = 20
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 10/10/2023 12:52 PM View: Appendix IV Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

APPENDIX E

Semiannual Remedy Selection and Design Progress Report



Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

SEMIANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

PLANT WANSLEY ASH POND 1 (AP-1)

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW7327B

January 2024

CERTIFICATION STATEMENT

This *Semiannual Remedy Selection and Design Progress Report, 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 § 257.97(a), the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10(6)(a) by a qualified groundwater scientist or engineer with Geosyntec Consultants, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

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LIST OF ACRONYMS AND ABBREVIATIONS

ACC	Atlantic Coast Consulting, Inc.
ACM	Assessment of Corrective Measures
AP	ash pond
ASD	alternate source demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
CSM	conceptual site model
EDR	Environmental Data Resources
Eurofins	Eurofins Environment Testing America
Fe/Mn	iron/manganese
ft bgs	feet below ground surface
GA EPD	Georgia Environmental Protection Division
GCSM	geochemical conceptual site model
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GWPS	Groundwater Protection Standard
ISS	in-situ stabilization
L/kg	liters per kilogram
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MNA	monitored natural attenuation
N ₂	nitrogen gas
O ₂	oxygen gas
ORP	oxidation-reduction potential
PRB	permeable reactive barrier
QEMSCAN	Quantitative Evaluation of Materials by Scanning Electron Microscopy
redox	oxidation-reduction
SEP	sequential extraction procedure
SGU	Geological Survey of Sweden
SSL	statistically significant level
USEPA	United States Environmental Protection Agency
XRD	X-ray diffraction

1.0 INTRODUCTION

1.1 Purpose

This *Semiannual Remedy Selection and Design Progress Report* (the semiannual progress report) was prepared by Geosyntec Consultants, Inc. (Geosyntec) for Georgia Power Company (Georgia Power) Plant Wansley Ash Pond 1 (AP-1 or Site) in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically 40 CFR § 257.97(a), and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10(6)(a) (State CCR Rule). This semiannual progress report is the first progress report since the issuance of the *Assessment of Corrective Measures Report – Plant Wansley Ash Pond 1 (AP-1)* (Geosyntec, 2023a) (ACM Report) and describes the progress made since then in selecting and designing a remedy.

The purpose of the ACM Report (and subsequent semiannual progress reports) is to document the process of evaluating and selecting corrective measure(s) to improve groundwater quality at the Site. This process is typically iterative and may be composed of multiple steps to analyze the effectiveness of corrective measures. Once potential corrective measures are identified, they are further evaluated using the criteria outlined in § 257.96(c) and Rule 391-3-4-.10(6)(a). The selected corrective measure must meet the additional protection criteria outlined in § 257.97 and corresponding Rule 391-3-4-.10(6)(a). Pursuant to § 257.97(a) and Rule 391-3-4-.10(6)(a), semiannual progress reports will be regularly submitted to document the efforts of evaluating and progressing toward selecting a groundwater corrective measure.

1.2 Site Background and Overview of AP-1 Pond Closure

Plant Wansley (**Figure 1**) is a former electric generating facility owned and operated by Georgia Power. Constructed in the early 1970s, the Plant operated one 343-acre CCR pond identified as AP-1 for water treatment and disposal of CCR from electrical generation operations. AP-1 began receiving process water containing fly ash and bottom ash in 1976. In 2008, two temporary gypsum storage cells were constructed on top of the CCR delta in AP-1, adjacent to the Separator Dike (**Figure 2**).

As of April 2019, all process-related flows from the Plant to AP-1 have ceased. As part of the *2022 Integrated Resource Plan*, the Georgia Public Service Commission approved decommissioning of the Plant Wansley coal fired units on August 31, 2022. In this plan,

Georgia Power has elected to close Plant Wansley AP-1 by removal of the CCR material in accordance with § 257.102 and corresponding State Rule 391-3-4-.10(7)(b). Removed CCR will be consolidated in the onsite existing landfill. The closure of AP-1 in this manner provides a source control measure that reduces the potential for migration of CCR constituents to groundwater.

1.3 Regulatory Program Status and Nature and Extent

Pursuant to the CCR Rule, CCR compliance groundwater monitoring-related activities have been performed for AP-1 since 2016. Georgia Power initiated an assessment monitoring program for groundwater at AP-1 in January 2018, after identifying statistically significant increases (SSI) of Appendix III constituents. Statistical analyses of the 2018 assessment monitoring data identified a statistically significant level (SSL) of lithium in detection monitoring wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 in excess of the associated federal and/or state groundwater protection standard (GWPS)¹. Statistical analyses of groundwater data obtained since March 2021 have identified SSLs of beryllium and lithium in WGWC-20, and statistical analyses of groundwater data since February 2023 have identified SSLs of beryllium and cobalt in WGWC-24.

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 in November 2020 (Geosyntec, 2020), with a revised ASD Addendum subsequently submitted to GA EPD in February 2021 (Geosyntec, 2021). The ASD Addendum presents supplemental data collected since submittal of the 2019 ASD, which provide additional lines of evidence to demonstrate that the SSLs of lithium identified at AP-1 are associated with naturally occurring lithium within rock formations at the Site. The 2019 ASD and 2021 ASD Addendum are under review by GA EPD.

Pursuant to § 257.96, an ACM program was initiated for AP-1 in October 2022. The ACM Report for AP-1 was submitted to GA EPD on March 24, 2023 (Geosyntec, 2023a).

¹ On February 22, 2022, GA EPD adopted the federal GWPS for cobalt, lithium, lead, and molybdenum. The GWPS for cadmium is derived from the federally promulgated maximum contaminant level of 0.005 milligrams per liter.

In accordance with § 257.96(b), groundwater continues to be monitored at AP-1 under the assessment monitoring program while the ACM phase is implemented.

Since the ACM was initiated, assessment monitoring wells (formerly referred to as “delineation monitoring wells”) have been installed and incorporated into the monitoring well network (formerly referred to as the “compliance monitoring well network”) to delineate, both horizontally and vertically, the extent of the beryllium, cobalt, and lithium SSLs at AP-1. The monitoring well network is shown on **Figure 2**; **Table 1** provides well construction details.

Statistical analysis of the August 2023 semiannual assessment monitoring groundwater data identified SSLs of the following Appendix IV constituents at concentrations exceeding the applicable GWPS at AP-1:

- Beryllium: WGWC-20 and WGWC-24
- Cobalt: WGWC-24
- Lithium: WGWC-19 and WGWC-20

Details are provided in the *2023 Annual Groundwater Monitoring and Corrective Action Report* (2023 Annual Groundwater Report) to which this semiannual progress report is appended.

The groundwater data collected in August 2023 was used to generate the beryllium, cobalt, and lithium iso-concentration maps presented on **Figures 3** through **5**, respectively. Based on the groundwater data reported in the 2023 Annual Groundwater Report, the horizontal and vertical delineation status of identified beryllium, cobalt, and lithium SSLs is the following:

- WGWC-20 – beryllium and lithium are horizontally delineated downgradient by WGWC-27. Beryllium is vertically delineated by WGWC-28D, and vertical delineation of lithium is ongoing.
- WGWC-24 – groundwater flow direction at this location is inward toward AP-1 resulting in horizontal delineation of both beryllium and cobalt. Beryllium is vertically delineated by PZ-26D, and vertical delineation of cobalt is ongoing.

In accordance with GA EPD guidance, data for monitoring wells with SSLs were further evaluated by Groundwater Stats Consulting using the Sen’s Slope/Mann Kendall trend

test (**Figures 6a and 6b**). The full statistical evaluation is included as an appendix to the 2023 Annual Groundwater Report.

- No statistically significant trends (at 95% confidence) were identified for beryllium or lithium in WGWC-20 during the current reporting period.
- No statistically significant trends (at 95% confidence) were identified for beryllium or cobalt in WGWC-24 during the current reporting period.

In addition to the assessment monitoring program at the Site, Georgia Power conducted a human health and ecological risk evaluation to evaluate beryllium and lithium that are present at SSLs at WGWC-20. The evaluation provides one of many lines of evidence that will be evaluated and factored into the remedy selection process, which will be completed in accordance with § 257.97. Based on this risk evaluation, concentrations of beryllium and lithium detected in groundwater and surface water at AP-1 between November 2016 and October 2022 are not expected to pose a risk to human health or the environment (Geosyntec, 2023b). Data collected since October 2022 are generally consistent with data used in the risk evaluation; therefore, the conclusions provided in the *2023 Risk Evaluation Report* (Geosyntec, 2023b) are supported by current conditions. The risk evaluation will be updated by Georgia Power to include evaluation of beryllium and cobalt in WGWC-24 as part of the Remedy Selection Report.

Georgia Power will continue to adaptively manage the Site and use ongoing data collection to evaluate the need for additional wells at AP-1. Pursuant to § 257.96, groundwater in the vicinity of AP-1 continues to be monitored during the ACM phase in accordance with the established assessment monitoring program.

1.4 Corrective Measures Evaluated

As discussed in the ACM Report, the following corrective measures were initially considered to be potentially feasible for use at AP-1.

1. Geochemical Approaches (In-Situ Injection)
2. Hydraulic Containment (Pump and Treat)
3. In-Situ Solidification/Stabilization (ISS)
4. Monitored Natural Attenuation (MNA)
5. Permeable Reactive Barrier (PRB)
6. Phytoremediation
7. Subsurface Vertical Barrier Walls

A comparative screening of the corrective measures is provided in **Table 2**, with the exception of ISS. ISS, also known as deep soil mixing, is a method for solidifying soil, immobilizing constituents of interest in the solid matrix. ISS technology was not retained as it is less effective or not applicable to dilute concentrations of lithium and beryllium in groundwater beyond the unit boundary as compared to the other options being evaluated. As such, no detailed evaluation on ISS is provided in **Table 2**.

During this semiannual reporting period, PRB, phytoremediation, and subsurface vertical barrier wall corrective measures have been removed from consideration based on retainage evaluations applicable to WGWC-20 and WGWC-24 presented in **Table 2**.

Georgia Power proactively initiated adaptive site management as outlined in the ACM Report (Geosyntec, 2023a) to support the groundwater remedy selection process and address potential changes in site conditions (e.g., successful reduction of constituent concentrations or changing trends) as appropriate during ash pond closure. The adaptive site management approach will take existing site conditions, including natural attenuation mechanisms, into account.

Characterization activities to evaluate attenuation mechanisms at the Site include collection of data necessary to progressively evaluate the existing and long-term effectiveness of these processes in the aquifer and reduce uncertainty for decision making at each screening step as listed in the USEPA guidelines for MNA of inorganic constituents (USEPA, 1999, 2007, and 2015). The 1999 MNA guidance originally introduced a “tiered approach” with three tiers of site-specific information, or lines of evidence, to evaluate the appropriate use of MNA at certain sites (USEPA, 1999). In 2007, the USEPA issued MNA technical guidance specific to inorganic contaminants (USEPA, 2007) that contained four “tiers.” The 2015 MNA guidance retains these four “tiers,” but describes them as “phases” as described below (USEPA, 2015). This 2015 MNA document for inorganic contaminants expands on and is designed to be a companion to the 1999 and 2007 MNA guidance. The phases are briefly outlined below:

- Phase I: Demonstration that the groundwater plume is *not expanding*.
- Phase II: Determination that the *mechanism and rate* of the attenuation process are sufficient.

- Phase III: Determination that the *capacity* of the aquifer is sufficient to attenuate the mass of contaminant within the plume and the *stability* of the immobilized contaminant is sufficient to resist re-mobilization.
- Phase IV: Design of a *performance monitoring program* based on an understanding of the mechanism of the attenuation process, and establishment of contingency remedies tailored to site-specific characteristics.

Georgia Power will address Phase IV, as appropriate, during the development of the future corrective action monitoring plan, after the final remedy selection report.

The data collection approach and the data interpretation presented within this semiannual progress report are informed by this tiered MNA guidance. It is noted, however, that the characterization data collected under this approach are also used to refine the conceptual site model (CSM) and evaluate other retained potential corrective measures, namely, in-situ injection and hydraulic containment.

1.5 Annual Potable Water Survey

An updated potable well survey of potential groundwater wells within a two-mile radius of AP-1 was conducted in December 2023 and consisted of reviewing federal, state, county records, and online sources. Surveys conducted by Environmental Data Resources (EDR) are included in **Appendix A**. Additional federal, state, county records and online sources outside of the EDR survey were also reviewed. The findings from the 2023 well survey are consistent with the 2022 well survey (Geosyntec, 2023c), except for the following additional features identified:

- One drinking water well located approximately 0.5 miles south of AP-1, with geographic coordinates 33.39886, -85.05667.
- One drinking water well located approximately 0.8 miles south of AP-1, with geographic coordinates 33.39681, -85.05126.
- One drinking water well located approximately 0.9 miles south of AP-1, with geographic coordinates 33.39307, -85.05613.
- One drinking water well located approximately 1.0 miles south of AP-1, with geographic coordinates 33.39403, -85.04482.

- One drinking water well located approximately 1.7 miles north of AP-1, with geographic coordinates 33.44779, -85.04604.
- One drinking water well located approximately 1.7 miles north of AP-1, with geographic coordinates 33.44580, -85.04700.
- One drinking water well located approximately 1.7 miles north of AP-1, with geographic coordinates 33.44564, -85.05005.
- One drinking water well located approximately 1.7 miles north of AP-1, with geographic coordinates 33.44710, -85.05439.
- One drinking water well located approximately 1.7 miles north of AP-1, with geographic coordinates 33.44604, -85.04851.
- One drinking water well located approximately 1.8 miles north of AP-1, with geographic coordinates 33.44719, -85.04791.
- One drinking water well located approximately 1.9 miles north of AP-1, with geographic coordinates 33.44766, -85.04987.
- One drinking water well located approximately 2.1 miles northeast of AP-1, with geographic coordinates 33.44765, -85.03136.
- One drinking water well located approximately 2.2 miles northeast of AP-1, with geographic coordinates 33.44736, -85.02693.

Public water is available throughout most of the investigated area, supplied by Carroll County Water Authority and the Heard County Water Authority. All of the well locations are separated from AP-1 by the on-site landfill (currently in detection monitoring for groundwater) and/or topographic ridges that likely represent groundwater divides. Therefore, it is reasonable to expect all of the wells to be hydrologically separated from the site, and none are considered to be hydraulically downgradient.

2.0 SUMMARY OF WORK COMPLETED

The following section summarizes the field investigations and data evaluations completed in support of the ACM program since the issuance of the ACM Report in March 2023 (Geosyntec, 2023a). The routine monitoring events associated with the assessment monitoring program are discussed in the 2023 Annual Groundwater Report, to which this semiannual progress report is appended.

2.1 Field Activities

Additional field investigation activities since the issuance of the ACM Report include assessment monitoring well installation and sampling. These activities are detailed below.

2.1.1 Well and Piezometer Installation and Sampling

In August 2023, one assessment monitoring well (WGWC-28D) was installed to refine the nature and extent of beryllium and lithium groundwater concentrations downgradient of assessment well WGWC-20 and piezometer WGWC-26D. Groundwater samples were collected in September and November 2023 for the Appendix III and Appendix IV constituent list or select geochemical parameters to characterize groundwater quality downgradient of AP-1. Hydraulic testing of the well will be completed in January 2024 and discussed in the subsequent semiannual remedy selection and design progress report.

All groundwater samples were sent to Eurofins Environment Testing America (Eurofins) under chain-of-custody procedures. Details of the sampling methods are provided in the 2023 Annual Groundwater Report; applicable results are discussed in Section 3.

2.2 Data Analysis Activities

In addition to the field activities discussed above, this section describes further data analysis including aquifer solids characterization and groundwater geochemical characterization.

2.2.1 Soil Characterization

Total metals and whole rock analyses were reported for aquifer solids from the screen intervals of WGWC-20 and WGWC-21, three subsurface intervals of WGWC-26D, and four subsurface intervals of WGWC-28D. Whole rock analysis is an analytical method for litho-geochemical classification of samples providing elemental analysis of sample mineralogy that can be used to help inform X-ray diffraction (XRD). XRD results were

reported for aquifer solids from the screen interval of WGWC-26D and the four subsurface intervals of WGWC-28D. XRD analysis is used to identify mineralogy present in solid samples.

In addition, aquifer solids from the screen intervals of WGWC-20 and WGWC-26D were analyzed by Quantitative Evaluation of Materials by Scanning Electron Microscopy (QEMSCAN), a high resolution mineralogical analysis to supplement XRD, and sequential extraction procedure (SEP) to assess the geochemical fractionation of trace elements within the aquifer solids. SEP is chemical extractions used to remove metals from specific solid-associated phases. SEP uses progressively stronger reagents to solubilize metals from increasingly recalcitrant phases. SGS Environmental Services in Lakefield, Ontario uses a 6-step extraction procedure for SEP as described below.

- Step 1 (Water Soluble Phase): This extraction includes trace elements that are water soluble. Therefore, deionized water is utilized for this extraction step as the trace elements will solubilize into the solution.
- Step 2 (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 1 molar (M) magnesium sulfate that displaces the trace elements from solid surfaces.
- Step 3 (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 (e.g., 1M sodium acetate solution in 25% acetic acid at pH 4.5 – 5 or acetic acid (buffered to pH 3–3.5 or 5) and the complexing agent disodium ethylenediaminetetraacetic acid at pH 4.6).
- Step 4 (Metal Oxide Phase or reducible fraction): Trace elements bound to crystalline hydroxides of iron or manganese are extracted by establishment of reducing conditions. This can be achieved using a solution of 1M hydroxylamine hydrochloride in acetic acid, a sodium citrate/sodium dithionite buffer, or an ascorbic acid/ammonium oxalate mixture. This phase often provides significant attenuation capacity.
- Step 5 (Organic Phase or oxidizable fraction): This extraction targets trace elements strongly bound via chemisorption to organic material. Oxidation of soil organic matter (e.g., hydrogen peroxide [H₂O₂] in an acidic medium, sodium

hypochlorite at pH 9.5, tetrasodium pyrophosphate at pH 9.5, or a hydrogen peroxide/ammonium acetate mixture), will bring into solution metals bound to organic functional groups.

- Step 6 (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 concentrated acid (e.g., hydrofluoric acid, nitric acid, hydrochloric acid, and boric acid). These are mostly stable, and naturally occurring fraction, which are not easily leached nor provides notable attenuating capacity for trace elements in groundwater.

The laboratory results for these analyses are included as **Appendix B**.

2.2.2 Groundwater Analytical Analysis

The analytical groundwater data reported for the assessment monitoring events conducted in February and August 2023 along with supplemental data collected in September and November 2023 were evaluated in support of characterizing the nature and extent of beryllium, cobalt, and lithium impacts downgradient of AP-1. In addition, analytical groundwater data collected for interstitial wells PZ-A2S, PZ-A2M, and PZ-A2D in February 2023 was also evaluated in conjunction with recent data.

2.2.3 Sorption and Desorption Studies

In addition to aquifer solids characterization, aquifer solids and groundwater samples were shipped to SiREM for laboratory batch studies to assess the sorption and desorption behavior of beryllium and lithium in the vicinity of WGWC-20. Sorption studies used Site soil and groundwater to evaluate attenuation mechanisms. Sorption tests are used to calculate a Site-specific distribution coefficient (K_d or K_f) between the solid phase and the aqueous phase. These coefficients can be used in a fate and transport evaluation and to evaluate potential corrective actions at the Site. Desorption studies are subsequently used to assess attenuation stability of the constituents of interest.

2.2.3.1 Sorption Studies

Site soil from two different lithologic zones were collected during the installation of WGWC-28D that were collocated with the screen intervals of WGWC-20 and WGWC-26D. Groundwater from WGWC-20 along with upgradient groundwater from

background well WGWA-18 were used with the Site aquifer solids to construct batch reactors to evaluate sorption of beryllium and lithium.

Groundwater from WGWC-20 was spiked with beryllium and lithium to double the concentration measured in the groundwater baseline analysis to ensure adsorption was observed. Reactors were constructed in duplicate, at five different ratios of geologic material to groundwater (GM:GW), and incubated for seven days under ambient (i.e., aerobic) conditions consistent with conditions in the aquifer downgradient of AP-1. Samples were collected from the reactors at the beginning of the study (i.e., Day 0) and at the end of the study (Day 7). The samples were analyzed for dissolved beryllium, lithium, pH, and oxidation-reduction potential (ORP). The concentrations of beryllium and lithium sorbed to the aquifer solids were calculated based on the concentration difference in the aqueous phase of the initial spike and Day 7 and the mass of aquifer solids in each reactor. A detailed description of the methods and materials used to complete the sorption study is included in the SiREM report provided in **Appendix C**.

Based on the results of the laboratory batch testing, the concentrations of sorbed constituents (in milligrams per kilogram (mg/kg)) and dissolved constituents remaining in aqueous solution (in milligrams per liter (mg/L)) were plotted. These graphs represent sorption isotherms that can be used to calculate site-specific sorption coefficients (K_d or K_f values depending on the best fit sorption isotherm).

2.2.3.2 Desorption Studies

Desorption testing was completed in two phases. The first phase was a 7-day adsorption incubation (Day -7 to Day 0) where reactors were incubated with spiked groundwater (WGWC-20) at a GM:GW ratio identified during the adsorption test and allowed to equilibrate. The second phase was a 7-day desorption incubation (Day 0 to Day 7) where the spiked groundwater used for the initial 7-day adsorption was decanted from the reactors, leaving behind the geologic material with the sorbed metals. Upgradient groundwater (WGWA-18) was then added to the geological material to evaluate desorption behavior of the metals when challenged with unequilibrated conditions.

The desorption reactors were tested under ambient (aerobic) conditions, with the amendment of nitrogen gas (N_2) to promote anerobic (reducing) conditions by removing all dissolved oxygen, and with the amendment of oxygen gas (O_2) to stimulate oxidizing conditions. As noted previously, more detailed descriptions of the methods and materials are included in the SiREM report provided in **Appendix C**.

3.0 SUMMARY OF RESULTS

This section presents the results of the field and data analysis efforts outlined in Section 2.2.

3.1 Summary of Data Analysis Activities

3.1.1 Soil Characterization

Total metals were completed on solids collected from WGWC-20, WGWC-21, WGWC-26D, and WGWC-28D for inorganic characterization of the solid phase downgradient of AP-1. The results of the total metals analysis (see **Table 3**) indicated a consistent concentration of beryllium in the solid matrix from 30 to 200 feet below ground surface (ft bgs) of approximately 6 mg/kg. Contrastingly, the concentrations of lithium in the solid phase increased with depth from approximately 20 mg/kg around 30 ft bgs to 65 mg/kg around 200 ft bgs. As expected for residuum and weathered bedrock materials, the iron and aluminum concentrations are substantial, with an iron concentration of approximately 10,000 mg/kg (1.0%) and an aluminum concentration of approximately 65,000 mg/kg (6.5%). Manganese concentrations were lower, ranging from 100 to 500 mg/kg.

Further characterization of the aquifer matrix was accomplished by whole rock analysis, XRD, and QEMSCAN. Results for these analyses are presented in **Tables 4** through **6**. Generally, the aquifer is characterized by quartz, albite (a plagioclase feldspar), and microcline (a potassium feldspar) as the dominant mineral fractions. In addition, the presence of iron oxides and clays was observed in the various samples and could potentially provide surface sites for sorption of beryllium (and cobalt) onto the solid phase. Results among the various samples indicated similar elemental concentrations.

Finally, aquifer solids were evaluated for the fractionation of beryllium and lithium at WGWC-20 and WGWC-26D using a 6-step SEP analysis method. The results are summarized in **Table 7**. The sum of steps 1 through 6 in **Table 7** generally represents the total concentrations of beryllium and lithium and these concentrations are consistent at an order of magnitude to the total concentrations reported in **Table 3**, which suggests the results of SEP analysis as acceptable for data evaluation. Beryllium was not recovered in the first two steps (water soluble and exchangeable). The bulk of beryllium concentrations were associated with the residual phase (about 80%) and iron/manganese (Fe/Mn) oxides phase (about 10%). This indicates that beryllium is predominantly in a recalcitrant phase that is relatively unavailable for environmental processes, with the

exception of the portion associated with the Fe/Mn oxides. The SEP results show that all of the lithium in the solids was bound tightly in the residual phase, indicating that solid-phase lithium is highly unavailable.

3.1.2 Groundwater Geochemical Analysis

A summary of the groundwater analytical results is provided in **Table 8**. These results indicate attenuation of beryllium in the vicinity of WGWC-20 and WGWC-24 both vertically and laterally, as delineation is complete. At WGWC-20, the beryllium concentration was observed to decrease in the subsurface with depth. Contrastingly, lithium at WGWC-20 was observed to remain at a constant concentration above the GWPS between 0.1 and 0.2 mg/L up to 200 ft bgs. To compare to concentrations observed in the interstitial porewater, samples were collected from three piezometers (PZ-A2S, PZ-A2M, and PZ-A2D) screened in ash at different depth intervals located between the gypsum cells adjacent to WGWC-20. Beryllium was non-detect in shallow and deep intervals and very low in the mid depth interval. Lithium was also non-detect in the deep interval but measured between 0.07 and 0.18 mg/L in the shallow and mid depth ranges. Interstitial porewater results are also summarized in **Table 8**.

To evaluate the geochemical signature of the detection, assessment, and interstitial wells at AP-1, piper diagrams (**Figure 7**) were developed using data from March 2021 and February 2023 through November 2023. The results of this geochemical analysis indicate distinct signatures between CCR and background groundwater. The CCR signature is characterized as a high CaSO_4 water represented by interstitial porewater piezometers, PZ-A2S, PZ-A2M, and PZ-A2D (although diluted at this depth). Select downgradient wells including WGWC-20, WGWC-24, and WGWC-26D appear to be influenced by the CCR signature as well. Background and unimpacted wells plot opposite the CCR signature and generally cluster together. The deep interstitial well, assessment monitoring well WGWC-27, WGWC-28D, and detection monitoring well WGWC-21 have unique signatures that are not indicative of CCR influence.

3.1.3 Sorption and Desorption Studies

The results of batch sorption and desorption tests are included in the SiREM report as **Appendix C**. As discussed previously, site soil from two different lithological zones were collected during the installation of WGWC-28D that were collocated with the screen intervals of WGWC-20 and WGWC-26D. Due to similar mineralogic characterization and sorption observations, the results from both of these lithologic zones were pooled in

the sorption and desorption evaluation. The pH and ORP remained stable during the sorption studies. Additional details are provided in **Appendix C**.

The results of sorption testing for beryllium are depicted on **Figure 8**, with dissolved concentrations (mg/L) plotted on the x-axis and the sorbed concentrations (mg/kg) plotted on the y-axis. As can be seen in **Figure 8**, the sorption results suggest that beryllium sorbs to the aquifer material with a maximum sorption capacity of approximately 80 mg/kg. Both the Linear and Freundlich sorption isotherms were utilized to assess the site-specific sorption coefficient. From the Linear isotherm, a K_d value of 4.3 liters per kilogram (L/kg) was determined with a R_2 of 0.44. From the Freundlich isotherm, a better data fit was observed with a K_f value of 8.6 with a R_2 of 0.64. This observation is consistent with groundwater monitoring results since elevated beryllium in WGWC-20 is limited to this location and has not been observed to migrate laterally or vertically from this well, suggesting strong sorption/attenuation of beryllium downgradient of this well.

The results of sorption testing for lithium indicated no sorption onto the aquifer materials, therefore no site-specific sorption coefficient was able to be determined. This observation is also generally consistent with groundwater monitoring results since elevated lithium occurs at depth in the vicinity of WGWC-20. However, attenuation of lithium laterally is observed in groundwater at the Site, suggesting potential sorption downgradient of this well. A USEPA Region 4 chemical screening level report (Nov. 2023) indicates a K_d value of 300 L/kg for Li (USEPA, 2023). This value is consistent with other reported values. For example, the Geological Survey of Sweden (SGU) has published K_d values for Li for seven selected soils and sediments that ranged between 190 L/kg and 370 L/kg (SGU, 2009), suggesting sorption potential in certain soils. Given the subsurface variability at Plant Wansley, it is possible that downgradient soils present improved sorption capacity for lithium.

For the desorption testing, only beryllium was evaluated given the lithium sorption results presented above. Similar initial sorption of dissolved beryllium was observed. Generally, beryllium was not observed to desorb significantly from the aquifer materials under oxidizing or reducing conditions, some desorption was observed under ambient conditions.

4.0 UPDATED CONCEPTUAL SITE MODEL

As noted previously, the closure strategy for AP-1 will be closure by removal, thereby providing a source control measure that reduces potential for migration of CCR-related constituents to groundwater. The CSM indicates that, under current conditions, the groundwater exceedances are contained onsite.

- No statistically significant concentration trends were observed for beryllium, lithium, or cobalt in WGWC-20 and WGWC-24 when the August 2023 data were analyzed (**Figure 6a** and **6b**).
- The downgradient lateral extent of beryllium and lithium observed in WGWC-20 is delineated by assessment well WGWC-27 installed downgradient of AP-1. In addition, the vertical delineation of beryllium is achieved by WGWC-28D. Efforts to complete vertical delineation of lithium are ongoing.
- The groundwater flow direction at WGWC-24 is inward toward AP-1 suggesting that horizontal delineation of beryllium and cobalt is complete. In addition, vertical delineation of beryllium is achieved by PZ-26D. Efforts to complete vertical delineation of cobalt are ongoing.
- The characterization of aquifer solids downgradient of AP-1 indicate the presence of iron oxides and clays could potentially provide surface sites and ion exchange capacities to attenuate inorganics.
- The sorption and desorption studies presented herein confirm that beryllium is sorbed onto aquifer materials. Limited desorption was only observed under ambient conditions suggesting favorable geochemical conditions could limit the potential for reversibility of sorption. Sorption of lithium was not observed.
- The laboratory studies presented to date are consistent with groundwater monitoring results that indicate variable attenuation of site-specific constituents is occurring downgradient of AP-1.

5.0 UPDATED EVALUATION OF CORRECTIVE MEASURES

Based on the data collected to date, the following potential corrective measures will be retained for further evaluation.

- Geochemical Injections:
 - Geochemical injections include the use of an injection well network, or other means of introducing reagents or air into the subsurface, to promote conditions suitable for the attenuation of beryllium and cobalt. A variety of pH and/or redox-altering technologies are available which can incorporate biological processes, chemical oxidants and reductants, and/or mechanical processes such as air sparging. These processes can be used to decrease the mobility of beryllium and cobalt. For example, beryllium and cobalt can be sorbed to iron and manganese oxides or co-precipitated with sulfide minerals. While some in-situ treatment techniques have been successful at the laboratory scale for lithium remediation, treatment of lithium via geochemical injection has yet to be demonstrated in the field. This approach would mainly be evaluated for use within a relatively small area around WGWC-20 to potentially address beryllium. Currently the groundwater flow direction observed at WGWC-24, where SSLs of beryllium and cobalt have been identified, is inward toward AP-1. Given that situation, the relevant applicability of this corrective measure needs to be considered for this location.

- Hydraulic Containment (Pump and Treat):
 - Hydraulic containment refers to the use of groundwater extraction to induce a hydraulic gradient for hydraulic capture or control the migration of impacted groundwater. This approach uses extraction wells or trenches to capture groundwater, which may subsequently require above-ground treatment and permitted discharge to a receiving water feature, reinjection into the groundwater, or reuse. Groundwater extraction and above-ground treatment is potentially a viable option within the alluvium and fractured bedrock zone as a supplemental or adaptive measure to treat groundwater near compliance wells if warranted by site conditions. However, it may not be suited or effective for extraction to treat groundwater near deeper wells with slow aquifer recharge. A screening-level analysis indicates that hydraulic containment remains a viable corrective measure.

- Monitored Natural Attenuation:
 - MNA relies on natural attenuation processes to achieve site-specific remediation objectives within a reasonable time frame relative to more active methods. Under certain conditions (e.g., through sorption, mineral precipitation or oxidation-reduction [redox] reactions), MNA effectively reduces the dissolved concentrations of inorganic constituents in groundwater. The characterization of aquifer solids presented in this progress report suggest that the aquifer matrix has the potential for attenuation of the various constituents of interest at the Site. Therefore, MNA remains a viable corrective measure. MNA may either be a stand-alone corrective measure or be part of a combination of corrective measures to address groundwater impacts.

Continued groundwater monitoring and updates to the statistical analyses will further refine the CSM and allow for the continued evaluation of an appropriate groundwater corrective measure at the Site.

6.0 PLANNED ACTIVITIES AND ANTICIPATED SCHEDULE

The proposed closure by removal approach provides a source control measure that reduces the potential for migration of CCR constituents to groundwater. During the closure construction of AP-1, temporary changes in site conditions may occur that must be considered as part of remedy selection. Georgia Power proactively initiated adaptive site management as outlined in the ACM Report (Geosyntec, 2023a) to support the remedial strategy and address potential changes in site conditions as appropriate. The adaptive site management approach may be adjusted over the Site's life cycle as new site information and technologies become available. To this end, Georgia Power will continue its data collection efforts as necessary in support of efforts to refine the CSM and to continue assessment of the feasibility of the corrective measures retained for further evaluation. Once sufficient data are available to make technically sound decisions regarding the ability to implement one or more specific corrective measures, necessary steps will be taken to design and implement a remedy for AP-1 in accordance with § 257.98.

Supplementary data collection and evaluation activities proposed to be completed during the next semiannual reporting period include:

- Continue evaluation of beryllium, lithium, and cobalt in assessment monitoring wells.
- Evaluate if additional vertical assessment monitoring wells are necessary to characterize the nature and extent of lithium downgradient of WGWC-20.
- Evaluate if additional assessment monitoring wells are necessary to characterize the nature and extent of beryllium and cobalt in the vicinity of WGWC-24.
- Development of a geochemical conceptual site model (GCSM) to evaluate the horizontal and vertical nature and extent of SSLs and identify the mechanisms of mobilization and potential attenuation.
- Assess the application of geochemical modeling to support remedy selection.

Georgia Power will continue to prepare semiannual progress reports to document AP-1 groundwater conditions, results associated with additional data collection, and the progress in selecting and designing a groundwater remedy in accordance with § 257.97(a). Georgia Power will include future semiannual progress reports in routine

groundwater monitoring and corrective action reports. Record keeping, notifications, and publicly accessible internet site requirements for the semiannual progress reports will be provided in accordance with § 257.105(h)(12), § 257.106(h)(9), and § 257.107(h)(9), respectively.

7.0 REFERENCES

- Atlantic Coast Consulting, Inc (ACC), 2019a. *2018 Annual Groundwater Monitoring and Corrective Action Report - Plant Wansley Ash Pond 1 (AP-1)*. January 2019.
- ACC, 2019b, *Alternate Source Demonstration – Plant Wansley Ash Pond*. January 2019.
- Geosyntec, 2020. *Alternative Source Demonstration Addendum – Lithium – Plant Wansley Ash Pond 1 (AP-1)*. November 2020.
- Geosyntec, 2021. *Alternative Source Demonstration Addendum - Lithium – Plant Wansley Ash Pond 1 (AP-1)*. February 2021.
- Geosyntec, 2023a. *Assessment of Corrective Measures Report – Plant Wansley Ash Pond 1 (AP-1)*. March 2023.
- Geosyntec 2023b. *Risk Evaluation Report – Plant Wansley Ash Pond 1 (AP-1)*. 2023
- Geosyntec 2023c. *2022 Annual Groundwater Monitoring and Corrective Action Report - Plant Wansley Ash Pond 1 (AP-1)*. January 2023.
- Gruebel, K. A., J. A. Davies and J. O. Leckie, 1988. *The Feasibility of Using Sequential Extraction Techniques for Arsenic and Selenium in Soils and Sediments*. Soil Sci. Soc. Am. J. 52: 390-397.
- Hickey, M. G. and J.A. Kittrick, 1984. *Chemical Partitioning of Cadmium, Copper, Nickel, and Zinc in Soils and Sediments Containing High Levels of Heavy Metals*. J. Environ. Qual. 13: 372-376.
- Kuo, S., P.E Heilman, and A.S. Baker, 1983. *Distribution and Forms of Copper, Zinc, Cadmium, Iron, and Manganese in Soils Near a Copper Smelter*. Soil Sci.135: 101-109.
- Sposito, G., C. S. LeVesque, J. P. LeClaire and N. Senesi, 1984. *Methodologies to Predict the Mobility and Availability of Hazardous Metals in Sludge-Amended Soils*. California Water Resource Center. University of California, Davis, CA.
- Tessier A., P.G.C. Campbell, and M. Bisson, 1979. *Sequential Extraction Procedures for the Speciation of Particulate Trace Metals*. Anal. Chem. 51(7): 844-851.

- USEPA, 1999. *Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites*. Office of Solid Waste and Emergency Response; Directive 9200.4-17P. April 1999.
- USEPA, 2007. *Monitored Natural Attenuation of Inorganic Contaminants in Ground Water. Volume 1 – Technical Basis for Assessment*. National Risk Management Laboratory. EPA/600/R-07/139. October 2007.
- USEPA, 2015. *Use of Monitored Natural Attenuation for Inorganic Contaminants in Groundwater at Superfund Sites*. Office of Solid Waste and Emergency Response Directive 9283.1-36. August 2015.
- USEPA, 2023. *Regional Screening Level (RSL) Chemical-specific Parameters Supporting Table*. United States Environmental Protection Agency. November 2023.

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⁾	Easting ⁽¹⁾	Ground Surface Elevation ^(1,2) (ft)	Top of Casing Elevation ⁽¹⁾ (ft)	Top of Screen Elevation ⁽¹⁾ (ft)	Bottom of Screen Elevation ⁽¹⁾ (ft)	Well Depth (ft BTOC) ⁽³⁾	Screen Interval Length (ft)
Detection Monitoring Well										
WGWA-1	Upgradient	10/21/2015	1250656.10	2035580.71	780.37	782.93	663.37	653.37	129.56	10
WGWA-2	Upgradient	10/16/2015	1251556.40	2035590.11	755.77	758.23	665.77	655.77	102.46	10
WGWA-3	Upgradient	12/15/2014	1240848.21	2022350.10	826.63	828.91	820.23	810.23	18.68	10
WGWA-4	Upgradient	01/13/2015	1240879.58	2022339.66	831.33	834.34	780.43	760.43	74.31	20
WGWA-5	Upgradient	12/23/2014	1241997.94	2022368.85	899.28	902.15	888.88	878.88	23.66	10
WGWA-6	Upgradient	01/13/2015	1241932.02	2022360.58	894.62	897.13	822.62	792.62	104.91	30
WGWA-7	Upgradient	12/22/2014	1243338.63	2023843.81	894.49	897.33	867.69	857.69	40.04	10
WGWA-18	Upgradient	12/16/2014	1244592.56	2025580.71	875.47	878.02	848.47	838.47	39.95	10
WGWC-8	Downgradient	10/29/2015	1242929.40	2029644.58	777.70	780.08	730.70	720.70	59.38	10
WGWC-9	Downgradient	12/04/2014	1242801.12	2029115.75	809.33	812.03	760.93	750.93	61.50	10
WGWC-10	Downgradient	10/27/2015	1240971.96	2026725.61	809.61	812.38	673.61	663.61	148.77	10
WGWC-11	Downgradient	12/08/2014	1240860.18	2025773.39	821.44	823.96	783.14	773.14	51.22	10
WGWC-12	Downgradient	10/22/2015	1240827.68	2025755.99	820.57	823.04	756.57	746.57	76.47	10
WGWC-13	Downgradient	11/04/2015	1240610.93	2024585.91	807.32	809.78	734.32	714.32	95.46	20
WGWC-14A	Downgradient	01/31/2017	1240604.54	2024599.63	808.20	810.94	778.20	768.20	42.74	10
WGWC-15	Downgradient	11/11/2015	1240483.16	2023912.92	802.03	804.69	758.53	748.53	56.16	10
WGWC-16	Downgradient	11/11/2015	1240480.46	2023903.77	801.72	804.21	779.72	769.72	34.50	10
WGWC-17	Downgradient	11/06/2015	1240052.06	2022623.82	813.36	816.00	730.36	720.36	95.94	10
WGWC-19	Downgradient	10/28/2015	1241851.51	2028949.19	780.60	783.42	698.60	688.60	94.82	10
WGWC-20	Downgradient	09/29/2020	1243350.76	2029769.43	804.88	807.95	775.18	765.18	43.17	10
WGWC-21	Downgradient	10/02/2020	1242139.33	2028512.65	831.79	834.41	773.11	763.11	71.70	10
WGWC-22	Downgradient	10/18/2020	1241695.25	2028116.05	807.00	810.37	776.92	766.92	43.85	10
WGWC-23	Downgradient	10/04/2020	1240769.79	2027414.58	820.50	823.80	780.40	770.40	53.80	10
WGWC-24	Downgradient	10/17/2020	1239916.68	2024139.82	802.22	804.80	774.43	764.43	40.77	10
WGWC-25	Downgradient	10/28/2020	1240184.18	2023616.69	805.98	808.98	779.51	769.51	39.87	10
Piezometer										
PZ-01	Piezometer	12/12/2014	1240249.86	2022319.93	853.91	856.72	817.81	807.81	49.31	10
PZ-04	Piezometer	12/22/2014	1242592.03	2023595.91	886.13	889.01	878.93	868.93	20.48	10
PZ-06	Piezometer	12/17/2014	1244382.89	2024661.39	912.30	915.15	898.60	888.60	26.95	10
PZ-08	Piezometer	12/15/2014	1245514.59	2026807.30	864.65	867.29	836.85	826.85	40.84	10
PZ-10	Piezometer	12/05/2014	1242058.41	2028554.29	829.26	832.02	810.46	800.46	31.96	10
PZ-11	Piezometer	12/05/2014	1240578.87	2026933.09	820.21	823.09	799.71	789.71	33.78	10
PZ-12	Piezometer	12/08/2014	1240837.96	2026731.01	816.17	818.74	779.37	769.37	49.78	10
PZ-15	Piezometer	12/10/2014	1240457.61	2025105.38	824.59	826.86	795.79	785.79	41.46	10
PZ-16	Piezometer	12/11/2014	1239419.77	2023662.22	798.05	800.70	785.05	775.05	26.15	10
PZ-17	Piezometer	12/11/2014	1239270.02	2023086.50	828.54	831.01	789.84	779.84	51.57	10
PZ-18	Piezometer	12/11/2014	1239569.52	2022299.20	812.10	814.51	788.20	778.20	36.71	10
PZ-20	Piezometer	01/31/2017	1243496.86	2030132.73	784.45	787.30	759.45	749.45	37.85	10
PZ-23D	Piezometer	10/02/2020	1242139.53	2028520.87	831.89	834.32	749.92	739.92	94.80	10
PZ-27D	Piezometer	10/15/2020	1240190.93	2023620.36	806.22	809.28	737.96	727.96	81.72	10
PZ-28	Piezometer	10/29/2020	1240066.02	2022624.73	813.57	816.18	753.68	743.68	72.90	10
PZ-29S	Piezometer	10/31/2020	1244317.13	2028839.68	805.80	805.30	770.28	760.28	45.42	10
PZ-29D	Piezometer	11/01/2020	1244304.90	2028853.29	805.77	805.24	688.69	678.69	126.95	10
WAMW-1	Piezometer	09/16/2018	1241843.66	2028944.63	780.05	782.66	668.40	658.40	124.60	10
WAMW-2	Piezometer	09/14/2018	1241547.56	2028806.27	768.39	770.82	694.19	684.19	86.92	10
WGWC-14	Piezometer	11/04/2015	1240621.86	2024584.92	806.87	809.50	764.87	754.87	54.63	10
WGWC-26D	Piezometer	9/26/2022	1243343.66	2029758.85	805.06	808.23	749.31	739.31	68.92	10
Assessment Monitoring Well										
PZ-26D	Assessment	10/12/2020	1239919.45	2024146.35	802.31	804.93	735.23	725.23	80.10	10
WGWC-27	Assessment	9/27/2022	1243215.51	2029878.92	778.05	780.54	749.15	739.15	41.39	10
WGWC-28D	Assessment	8/11/2023	1243337.13	2029751.04	805.36	808.24	609.06	599.06	209.70	10

Notes:

ft = feet.

ft BTOC = feet below top of casing.

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). 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. Survey of WGWC-26D and WGWC-27 was completed by GEL Solutions and certified on October 13, 2022. Survey of WGWC-28D was completed by GEL Solutions and certified September 5, 2023.

(2) Ground surface elevation defined at the survey nail installed within the well pad.

(3) Total well depth accounts for sump if data provided on construction logs.

Table 2
Evaluation of Remedial Technologies
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Regulatory Citation for Criteria:		40 CFR 257.96(C)(1)		40 CFR 257.96(C)(1)	40 CFR 257.96(C)(1)
Corrective Measure	Description	Performance	Reliability	Ease of Implementation	Potential Impacts
Geochemical Approaches (In-Situ Injection)	Use of an injection well network, or other means of introducing reagents or air into the subsurface, to promote either anaerobic or aerobic attenuation of beryllium (Be), Cobalt (Co), and potentially lithium (Li), although further evaluation and testing would be needed to understand applicability to Li attenuation. The main attenuation mechanism for Be and Co is sorption, which is more dependent on pH than oxidation-reduction (redox) conditions. Under anaerobic conditions, Be and Co would be attenuated within sparingly soluble sulfide minerals. Under aerobic conditions, soluble iron or manganese and oxygen (either via air sparging or through a chemical oxidant) would be injected to promote the formation of iron or manganese (oxy-) hydroxides for subsequent sorption of Be and Co onto these mineral phases. If sufficient iron is present in groundwater, the use of air sparging alone may be considered to precipitate iron (oxy-) hydroxides for sorption. In-situ chemical oxidation (ISCO) or in-situ chemical reduction (ISCR) can be used to chemically alter the redox environment in the subsurface to affect the mobility of certain inorganic compounds, including Be and Co.	The effective immobilization of Be and Co at neutral to alkaline pH can be effective at achieving groundwater protection standards (GWPS) within a reasonable time frame. This immobilization has been shown at other sites under aerobic and anaerobic conditions; however, the anaerobic approach (involving the injection of an electron donor together with iron or manganese and sulfur) requires careful study and testing. While aerobic approaches are somewhat less complex, additional aquifer characterization is needed to further evaluate these options. Li is generally characterized as nonreactive, and the application of in-situ injection treatment for immobilization would need to be further investigated to evaluate efficacy.	Reliability dependent on permeability of the subsurface and the amount and distribution of secondary iron or manganese (oxy-) hydroxides (for aerobic approach), or electron donors and soluble iron or manganese and sulfur that can be consistently distributed (for anaerobic approach). Reliable technology if injected materials can be distributed throughout the impacted aquifer. Bench- and/or pilot-scale treatability testing programs are needed to understand the biogeochemical processes that would effectively reduce migration of Be, Co, and Li in groundwater.	Moderate. Installation of injection well network or other injection infrastructure would be required. Alternative installation approaches may be considered, such as along the downgradient edge of impacted groundwater, which would function similar to a PRB application. The potential for clogging of aquifer matrix and/or injection well infrastructure is an implementation consideration. Injectate distribution during injections (i.e., radius of influence) needs to be evaluated, especially given the shallow bedrock environment in the vicinity of WGWC-20. Current groundwater flow conditions are towards AP-1 in the vicinity of WGWC-24, therefore the relevant applicability of this corrective measure needs to be considered for this location.	Minimal impacts are expected if remedy works as designed, based on a thorough pre-design investigation, geochemical modeling, and bench/pilot study results. Redox-altering processes have the potential to mobilize naturally-occurring constituents as an unintended consequence if not properly studied and implemented.
Hydraulic Containment ("Pump and Treat")	Hydraulic containment refers to the use of groundwater extraction to induce a hydraulic gradient for hydraulic capture or control the migration of impacted groundwater. This approach uses extraction wells or trenches to capture groundwater, which may subsequently require above-ground treatment and permitted discharge to a receiving water feature, reinjection into the aquifer, or reuse (e.g., land application, CCR conditioning, etc.). It is applicable to a variable mix of inorganic constituents, including dissolved Be, Co, and Li.	Pump and treat (P&T) is effective at providing hydraulic control, but it is unclear whether full groundwater remediation can be achieved without further understanding attenuation mechanisms at the Site. At WGWC-20 and WGWC-24, implementation of the corrective measure is contingent on completing additional assessment activities (i.e., high-resolution site characterization, pump tests, flow modeling, and capture zone analysis). This is needed to refine the constituent distribution in the subsurface to target specific flow zones for pumping for improved mass recovery efficiency/effectiveness and to further evaluate the potential remedy performance. Current groundwater flow conditions are towards AP-1 in the vicinity of WGWC-24, therefore the relevant applicability of this corrective measure needs to be considered for this location.	Generally reliable for hydraulic containment, but uncertainty exists whether groundwater remediation goals can be achieved within a reasonable time frame without further understanding attenuation mechanisms.	Moderate. Proven approach for hydraulic control, and supplemental installation of extraction wells/trenches is fairly straightforward. The extracted groundwater may potentially require an above-ground treatment system, although one may be available as a result of closure activities. A variety of sorption and precipitation approaches exist for ex-situ treatment of Be and Co, while this would need to be further evaluated for Li. Operation and maintenance (O&M) requirements are expected to include upkeep of infrastructure components (pumps, pipes, tanks, instrumentation and controls, above-ground treatment system) and handling of treatment residuals. Current groundwater flow conditions are towards AP-1 in the vicinity of WGWC-24, therefore the relevant applicability of this corrective measure needs to be considered for this location.	Moderate. The main potential impacts are related to the presence and operation of an on-site above-ground water treatment facility and related infrastructure to convey and treat extracted groundwater. Pumping activity may unintentionally alter the geochemistry within the hydraulic capture zone.
Monitored Natural Attenuation (MNA)	MNA relies on natural attenuation processes to achieve site-specific remediation objectives within a reasonable time frame relative to more active methods. Under certain conditions (e.g., through sorption, mineral precipitation or oxidation-reduction reactions), MNA effectively reduces the dissolved concentrations of inorganic constituents in groundwater. Attenuation mechanisms for inorganic constituents at CCR sites, including Be and Li at WGWC-20 and Be and Co at WGWC-24, are either physical (e.g., dilution, dispersion, flushing, and related processes) or chemical (sorption or oxidation reduction reactions). Chemical attenuation processes include precipitation and sorption reactions such as adsorption on the surfaces of soil minerals, absorption into the matrix of soil minerals, or partitioning into organic matter. Further, redox reactions, via abiotic or biotic processes, can transform the valence states of some inorganic constituents to less soluble and thus less mobile forms. For Be and Co, the main attenuation processes include sorption to iron and manganese oxides and for Li, physical attenuation. Further evaluation of chemical attenuation mechanisms for Li would need to be completed.	Physical and chemical MNA mechanisms for Be, Co, and Li, including dilution, dispersion, sorption, and oxidation reduction reactions, can be effective at achieving GWPS within a reasonable time frame. Attenuation processes for Be, Co, and Li are already occurring at the site as evidenced by data from the assessment wells associated with WGWC-20 and WGWC-24. Source control will improve the mass balance such that the buffer capacity of the aquifer is unlikely to be exhausted. The attenuation processes already at work for Be and Li at WGWC-20 and Be and Co at WGWC-24 will further enhance the effectiveness of MNA.	Reliable as long as the aquifer conditions that result in Be, Co, and Li attenuation remain favorable (and/or are being enhanced) and sufficient attenuation capacity is present. MNA is reliable and can either be used as a stand-alone corrective measure for groundwater impacted by dissolved Be and Co, or in combination with a second technology for Be, Co, or Li.	Reasonably implementable with respect to infrastructure, but moderate to complex with respect to documentation. Proven approach, but additional data are needed to show that the existing attenuation capacity is sufficient to meet site objectives within a reasonable timeframe. A monitoring well network already exists to implement future groundwater monitoring efforts.	None. MNA relies on the natural processes active in the aquifer matrix to reduce constituent concentrations without disturbing the surface or the subsurface.
Permeable Reactive Barrier	Permeable reactive barrier (PRB) technology typically involves the installation of a permeable subsurface wall constructed with reactive media for the removal of constituents as groundwater passes through. The effectiveness of a PRB on the removal of Be and Li is relatively unknown. Further research and testing are required to see if Be and Li could be attenuated by a PRB. Either ZVI- Carbon matrix or solid carbon (bio-barrier) are most likely viable for the removal of Co. The carbon could be composed of peat moss, mulch or another carbon source. Exact placement of the PRB is contingent on finalization of the nature and extent characterization and subsurface geologic considerations. PRBs can also be constructed as "funnel and gate" systems, where a barrier wall directs groundwater to a smaller "treatment gate" filled with reactive media.	The PRB approach would be expected to achieve GWPS for Be, Co, and Li as impacted groundwater passes through the reactive barrier, if an appropriate reactive barrier can be identified in further evaluations. Additional testing is required to select the appropriate sorptive media mix that will not result in generation of unwanted byproducts and be applicable for Be and Li, ideally in concurrence with Co.	Reliable groundwater corrective measure, but loss of reactivity over time may require re-installation depending on the duration of the remedy. Additional data collection, including conducting a bench and/or pilot study, is needed to better characterize current attenuation mechanisms and/or select the appropriate reactive media mix for a PRB wall.	Difficult. Trenching at depth through bedrock (up to 40 feet) would be required to install a mix of reactive materials in the subsurface. Placement of reactive material in bedrock fracture zones to capture groundwater would be a complex construction method. Once installed, treatment will be passive and O&M requirements are minimal if replacement of the PRB is not necessary.	Minimal impacts are expected following the construction of the remedy. However, certain PRB methods have the potential to create anaerobic conditions downgradient of the PRB wall that may mobilize redox-sensitive naturally-occurring constituents. These conditions need to be carefully monitored. Short-term impacts during the construction of the remedy can be mitigated through appropriate planning and health and safety measures.
Phytoremediation / TreeWells	Phytoremediation uses trees and other plants to degrade or immobilize constituents or achieve hydraulic control without the need for an above-ground water treatment system and infrastructure. Within the context of AP-1, this corrective measure would likely use an engineered (proprietary) TreeWell phytoremediation system along the point of compliance or downgradient edge of the impacted groundwater for hydraulic control. The system promotes root development to the targeted groundwater zone (depth), allowing for hydraulic control of impacted groundwater. In addition, immobilization of Be, Co, and Li within the root zone as well as incidental uptake of dissolved Be, Co, and Li with groundwater is expected to occur concurrent with hydraulic control.	Once established (typically at the end of the third growing season), a TreeWell system is effective for providing hydraulic containment of groundwater, and potential reduction of Be, Co, and Li concentrations through immobilization and/or uptake and sequestration in the tree biomass; however, the main purpose is to provide hydraulic control. Additional aquifer testing and/or groundwater flow modeling would be needed to confirm the suitability of this technology in the shallow bedrock and variable lithologic subsurface at WGWC-20 and WGWC-24.	Engineered phytoremediation is a proven technology where hydrogeologic factors are taken into account (e.g., hydraulic conductivity, flow velocity, depth to impacted groundwater zone, etc.). This is considered an active remedial approach through the use of trees as the "pumps" driving the system. Careful design will be needed to select the proper species, which will include consideration of groundwater chemistry, plant uptake of constituents, the nature of the subsurface, and groundwater flow modeling to evaluate the required number and placement of TreeWell units.	Reasonably implementable to moderate. Engineered approach has been proven effective, and specific depth zones can be targeted. Trees are installed as "tree wells" in a large diameter boring to get the roots deep enough to intercept impacted groundwater flow paths. Area must be clear of above and below-ground structures (i.e., power lines). The system, once established (approximately three growing seasons), is a self-maintaining, sustainable remedial system that has no external energy requirements and little maintenance (i.e., efforts normally associated with landscaping).	Minimal impacts are expected. In fact, there are several positive impacts expected, including enhanced aesthetics, wildlife habitat, and limited energy consumption.
Subsurface Vertical Barrier Walls	This approach involves placing a barrier to groundwater flow in the subsurface, frequently around a source area, to prevent future migration of dissolved constituents in groundwater from beneath the source to downgradient areas. In general, barrier walls are designed to provide containment; localized treatment achieved through the sorption or chemical precipitation reactions from construction of the walls are incidental to the design objective. A variety of barrier materials can be used, including cement and/or bentonite slurries, geomembrane composite materials, or driven materials such as steel or vinyl sheet pile. Groundwater extraction from upgradient of the barrier may be required to avoid groundwater mounding behind the barrier. A barrier wall might be used in conjunction with a "funnel and gate" system for a PRB rather than a stand-alone technology. Barrier walls can also be used in downgradient applications.	Barrier walls are a proven technology for seepage control and/or groundwater cutoff at impoundments. Slurry walls can be installed up to approximately 90 ft below ground surface (bgs), and groundwater impacts at the site are observed at depths less than 40 ft bgs. Within the context of WGWC-20, groundwater could either be directed to "treatment gates" for passive treatment (in a PRB) or migration of impacted groundwater could be minimized via barrier wall installation. The inward groundwater flow condition at WGWC-24 may not necessitate corrective action at this time. Additional subsurface investigations, aquifer testing, and compatibility testing with site-specific groundwater will be needed to assess applicability in the shallow bedrock subsurface environment.	Generally reliable as a barrier to groundwater flow; however, treatment of downgradient groundwater is typically not the primary objective.	Moderate to difficult. Trenching will be required to fill in the various slurry mixes; alternatively, sheet pile installations can be accomplished without excavation of trenches. The application of barrier walls is limited by the depth of installation and subsurface geology, which will be a consideration at AP-1. Installation methods and materials are readily available. Once installed, above-ground infrastructure to pump and treat groundwater may be required. O&M requirements are expected to include upkeep of infrastructure components (pumps, pipes, tanks, instrumentation and controls, above-ground treatment system) and handling of treatment residuals.	Minimal impacts are expected following the construction of the remedy. Short-term impacts during the construction of the remedy can be mitigated through appropriate planning and health and safety measures. Changes to groundwater flow patterns due to installation of the barrier wall are expected, which can affect other aspects of groundwater corrective action. Pumping activity may unintentionally alter the geochemistry within the hydraulic capture zone that may result in the mobilization of other constituents that may require treatment.

Table 2
Evaluation of Remedial Technologies
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Regulatory Citation for Criteria:	40 CFR 257.96(C)(2)	40 CFR 257.96(C)(3)			
Corrective Measure	Time Requirement to Begin/Complete	Institutional Requirements	Other Env or Public Health Requirements	Relative Costs	Evaluation of Retainage
Geochemical Approaches (In-Situ Injection)	Installation of the injection network can be accomplished relatively quickly (1 to 2 months). However, a thorough pre-design investigation, geochemical modeling, and/or bench- and/or pilot-testing will be required to obtain design parameters prior to design and construction of the corrective measure, which may take up to 24 months. Once installed, the time required to achieve GWPS within the treatment area may be relatively quick but depends on the attenuation process kinetics of each targeted constituent. The time for complete distribution of the injected materials throughout the treatment area is also variable.	No institutional requirements are expected at this time.	Based on the results of the Risk Evaluation Report (Appendix A of the ACM Report), SSL-related constituents (Li and Be) evaluated from AP-1 are not expected to pose a risk to human health and the environment; Co will be added to a revised version of the Risk Evaluation as part of the Remedy Selection Report. Georgia Power will continue to proactively evaluate the data and update this evaluation, if necessary. Based on downgradient sampling results, there currently are no complete exposure pathways for potential receptors downgradient of WGWC-20; a risk evaluation in vicinity of WGWC-24 is pending. Potential for mobilization of redox-sensitive constituents exists during implementation of an anaerobic attenuation approach.	Medium to high (depending on expanse of injection network required, injection dispersion requirements in bedrock, and injectate volume required per derived design parameters).	Remedial approach retained as a targeted injection layout may result in decreased concentrations of Be and Co in groundwater below the GWPS; may be used as a stand-alone corrective measure or in conjunction with other potential groundwater corrective measures. Further evaluation would be required to understand applicability and efficacy to treat Li.
Hydraulic Containment ("Pump and Treat")	Installation of extraction wells and/or trenches can be accomplished relatively quickly (1 to 2 months). However, additional aquifer testing, system design and installation, and permit approval may be required, which may take up to 24 months. The initiation of the approach would be contingent on the start-up of the wastewater treatment infrastructure (if being utilized). Hydraulic containment can be achieved relatively quickly after startup of the extraction system, but uncertainty exists with respect to the time to achieve GWPS without additional data collection to better understand attenuation mechanisms for Be, Co, and Li.	Depending on the effluent management strategy, modifications to the existing NPDES permit may be required, or obtaining a UIC permit will be needed if groundwater reinjection is chosen.	Based on the results of the Risk Evaluation Report (Appendix A of the ACM Report), SSL-related constituents (Li and Be) evaluated from AP-1 are not expected to pose a risk to human health and the environment; Co will be added to a revised version of the Risk Evaluation as part of the Remedy Selection Report. Georgia Power will continue to proactively evaluate the data and update this evaluation, if necessary. Based on downgradient sampling results, there currently are no complete exposure pathways for potential receptors downgradient of WGWC-20; a risk evaluation in vicinity of WGWC-24 is pending. Above-ground treatment components may need to be present for an extended period of time, generating residuals requiring management and disposal.	Medium to high (depending on remedy duration, complexity of above-ground treatment system, and volume of water processed).	P&T is a potentially viable corrective measure for Be, Co, and Li in groundwater and will be retained for further evaluation.
Monitored Natural Attenuation (MNA)	The infrastructure to initiate MNA is already in place. Demonstrating attenuation mechanisms and capacity can be time-consuming and can take up to 24 months. MNA is expected to be successful within a reasonable time frame following pond closure. Engineering measures will be implemented to minimize potential impacts to the subsurface during closure activities and routine groundwater monitoring will be used to verify that groundwater impacts remain stable or decrease over time.	No institutional requirements are expected at this time.	Based on the results of the Risk Evaluation Report (Appendix A of the ACM Report), SSL-related constituents (Li and Be) evaluated from AP-1 are not expected to pose a risk to human health and the environment; Co will be added to a revised version of the Risk Evaluation as part of the Remedy Selection Report. Georgia Power will continue to proactively evaluate the data and update this evaluation, if necessary. Based on downgradient sampling results, there currently are no complete exposure pathways for potential receptors downgradient of WGWC-20; a risk evaluation in vicinity of WGWC-24 is pending. Little to no physical disruption to remediation areas and no adverse construction related impacts are expected on the surrounding community.	Low. Minimal cost requirements.	Under current conditions, attenuation processes for Be, Co, and Li are already occurring as evidenced by groundwater data from assessment wells associated with WGWC-20 and WGWC-24. Therefore, MNA is a potentially viable corrective measure and will be retained for further evaluation, either as a stand-alone corrective measure or in conjunction with other potential groundwater corrective measures.
Permeable Reactive Barrier	Installation of a PRB can be accomplished relatively quickly (6 to 12 months), depending on the final location and configuration. WGWC-20 and WGWC-24 would require installation of two systems for use in both locations due to distance, however current groundwater flow for WGWC-24 is inward toward AP-1 and may not necessitate corrective action at this time. Bench- and/or pilot-testing would be required to obtain design parameters prior to design and construction of the remedy, which may take up to 24 months. Once installed, the time to achieve GWPS downgradient of the PRB is anticipated to be relatively quick.	No institutional requirements are expected at this time.	Based on the results of the Risk Evaluation Report (Appendix A of the ACM Report), SSL-related constituents (Li and Be) evaluated from AP-1 are not expected to pose a risk to human health and the environment; Co will be added to a revised version of the Risk Evaluation as part of the Remedy Selection Report. Georgia Power will continue to proactively evaluate the data and update this evaluation, if necessary. Based on downgradient sampling results, there currently are no complete exposure pathways for potential receptors downgradient of WGWC-20; a risk evaluation in vicinity of WGWC-24 is pending. Following installation, the remedy is passive (but may require replacement). However, certain treatment media (such as ZVI) have the potential to mobilize naturally-occurring constituents downgradient of the PRB.	High (for installation) - minimal O&M requirements if replacement is not necessary.	Due to limited space and significant infrastructure downgradient of WGWC-20 and the direction of groundwater flow at WGWC-24 inward to AP-1, PRB has not been retained for further consideration.
Phytoremediation / TreeWells	The design phase will require groundwater modeling for optimal placement of the TreeWell units, which may take up to 6 months. Additional aquifer testing and design will likely be required, which may take up to 24 months. Depending on the number of required units, the installation effort is expected to last several weeks. Hydraulic capture/control is expected approximately three years after planting and system performance is expected to further improve over time.	No institutional requirements are expected at this time.	Based on the results of the Risk Evaluation Report (Appendix A of the ACM Report), SSL-related constituents (Li and Be) evaluated from AP-1 are not expected to pose a risk to human health and the environment; Co will be added to a revised version of the Risk Evaluation as part of the Remedy Selection Report. Georgia Power will continue to proactively evaluate the data and update this evaluation, if necessary. Based on downgradient sampling results, there currently are no complete exposure pathways for potential receptors downgradient of WGWC-20; a risk evaluation in vicinity of WGWC-24 is pending. Following installation, the remedy is passive and does not require external energy.	Medium to high (for installation) - minimal O&M requirements.	Given groundwater depth and SSL exceedance depth at the Site, phytoremediation is likely not a viable groundwater corrective measure. In addition, the fractured shallow bedrock, variable subsurface lithology, and significant infrastructure in the vicinity will make plant selection and planting layout difficult.
Subsurface Vertical Barrier Walls	Installation of a barrier wall can be accomplished relatively quickly (6 to 12 months), depending on the final location and configuration. However, design and additional aquifer and compatibility testing will be required, which may take up to 24 months. Once installed, preventing migration of constituents dissolved in groundwater is anticipated to be relatively quick. Since this approach does not treat the downgradient area of impacted groundwater but prevents migration from a source area, it will likely have to be maintained long-term and coupled with other approaches.	No institutional requirements are expected at this time.	Based on the results of the Risk Evaluation Report (Appendix A of the ACM Report), SSL-related constituents (Li and Be) evaluated from AP-1 are not expected to pose a risk to human health and the environment; Co will be added to a revised version of the Risk Evaluation as part of the Remedy Selection Report. Georgia Power will continue to proactively evaluate the data and update this evaluation, if necessary. Based on downgradient sampling results, there currently are no complete exposure pathways for potential receptors downgradient of WGWC-20; a risk evaluation in vicinity of WGWC-24 is pending. Due to the need for groundwater extraction associated with barrier walls, above-ground treatment components may need to be present for an extended period of time, generating residuals requiring management and disposal.	High (depending on length and depth of wall, subsurface geologic considerations, remedy duration and complexity of above-ground treatment system).	Due to limited space and significant infrastructure downgradient of WGWC-20 and the direction of groundwater flow at WGWC-24 inward to AP-1, subsurface vertical barrier walls have not been retained for further consideration.

Table 3
 Summary of Total Metals Concentrations
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Location ID	WGWC-20	WGWC-21	WGWC-26D	WGWC-26D	WGWC-26D	WGWC-28D	WGWC-28D	WGWC-28D	WGWC-28D	Units
Sample Depth	33 to 38 ft BGS	60 to 68 ft BGS	36 to 40 ft BGS	32 to 36 ft BGS	55 to 65 ft BGS	80 to 90 ft BGS	91 to 99 ft BGS	160 to 170 ft BGS	196 to 206 ft BGS	
Sample Date	10/4/2022	10/4/2022	10/4/2022	10/4/2022	9/6/2023	9/6/2023	9/6/2023	9/6/2023	9/6/2023	
Mineral/Compound										
Aluminum	67000	68000	72000	71000	55000	62000	62000	59000	62000	mg/kg
Beryllium	6	5	7	6	6.2	6.4	6.3	6.6	5.0	mg/kg
Iron	7600	10000	6000	7100	7300	15000	17000	11000	22000	mg/kg
Lithium	30	30	31	20	22	36	37	39	65	mg/kg
Manganese	390	340	320	350	140	430	540	320	490	mg/kg

Notes:
 mg/kg = milligrams per kilogram.
 ft BGS = feet below ground surface.

Table 4
Summary of Whole Rock Analysis
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Location ID	WGWC-20	WGWC-20	WGWC-21	WGWC-26D	WGWC-26D	WGWC-26D	WGWC-28D	WGWC-28D	WGWC-28D	WGWC-28D	Units
Sample Depth	33 to 38 ft BGS	33 to 38 ft BGS	60 to 68 ft BGS	32 to 36 ft BGS	36 to 40 ft BGS	55 to 65 ft BGS	80 to 90 ft BGS	91 to 99 ft BGS	160 to 170 ft BGS	196 to 206 ft BGS	
Sample Date	10/4/2022	9/6/2023	10/4/2022	10/4/2022	10/4/2022	9/6/2023	9/6/2023	9/6/2023	9/6/2023	9/6/2023	
Mineral/Compound											
Al ₂ O ₃	12.9	12.4	12.3	12.7	13.1	12.9	12.9	13.1	12.4	13.2	%
CaO	0.48	0.45	0.72	0.5	0.54	0.5	0.89	1.06	0.8	1.2	%
Cr ₂ O ₃	0.03	< 0.01	0.02	0.02	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	%
Fe ₂ O ₃	0.83	2.18	1.34	0.75	0.94	1.39	2.67	2.71	2.28	3.52	%
K ₂ O	4.56	4.26	5.01	4.84	4.84	4.79	4.54	4.57	4.58	4.02	%
LOI	1.02	1.1	0.72	0.8	0.67	0.88	0.79	1.04	0.62	1.36	%
MgO	0.12	0.09	0.19	0.07	0.05	0.1	0.28	0.31	0.21	0.95	%
MnO	0.03	0.12	0.04	0.04	0.05	0.02	0.06	0.07	0.04	0.08	%
Na ₂ O	3.64	3.43	3.24	3.58	3.8	3.48	3.45	3.48	3.25	2.93	%
P ₂ O ₅	0.01	0.02	0.03	0.01	0.02	0.02	0.06	0.08	0.03	0.09	%
SiO ₂	75.3	76.5	75.6	75.8	76.1	76.2	74.1	73.5	75.9	72.4	%
TiO ₂	0.13	0.11	0.16	0.1	0.07	0.12	0.24	0.29	0.18	0.41	%
V ₂ O ₅	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	%
Sum	99	100.6	99.5	99.1	100.2	100.4	100.0	100.3	100.3	100.1	%

Notes:
 < = Indicates the parameter was not detected above the analytical method detection limit (MDL).
 ft BGS = feet below ground surface.

Table 5
 Summary of X-Ray Diffraction Analysis
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Location ID	WGWC-26D	WGWC-28D	WGWC-28D	WGWC-28D	WGWC-28D	Units	
Sample Depth	55 to 65 ft BGS	80 to 90 ft BGS	91 to 99 ft BGS	160 to 170 ft BGS	196 to 206 ft BGS		
Sample Date	9/25/2023	9/25/2023	9/25/2023	9/25/2023	9/25/2023		
Mineral/Compound							
Quartz	SiO ₂	37.9	38.6	37.6	39.2	38.6	%
Albite	NaAlSi ₃ O ₈	27.6	28.6	30.3	28.5	27.3	%
Microcline	KAlSi ₃ O ₈	31.6	28	27.8	27.7	20.7	%
Muscovite	KAl ₂ (Si ₃ AlO ₁₀)(OH) ₂	2.0	1.9	2.1	1.7	4.6	%
Pyrite	FeS ₂	0.1	0.3	0.2	0.1	0.1	%
Kaolinite	Al ₂ Si ₂ O ₅ (OH) ₄	0.5	0.2	0.1	0.2	0.3	%
Rutile	TiO ₂	0.4	0.4	0.3	0.4	0.9	%
Chlorite	(Fe,(Mg,Mn),Al)(Si ₃ Al)O ₁₀ (OH) ₈	-	1.4	1.1	1.3	3.1	%
Diopside	CaMgSi ₂ O ₆	-	0.6	0.6	0.9	0.4	%
Magnetite	Fe ₃ O ₄	-	-	-	-	0.7	%
Phlogopite	KMg ₃ (AlSi ₃ O ₁₀)(OH) ₂	-	-	-	-	3.4	%
Sum		100.0	100.0	100.0	100.0	100.0	wt. %

Notes:

- = Indicates the mineral was not identified.
- ft BGS = feet below ground surface.
- wt. % = weight percent.

Table 6
 Summary of QEMSCAN Analysis
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Location ID	Sample	WGWC-20	WGWC-26D
Sample Depth		33 to 38 ft BGS	55 to 65 ft BGS
Sample Date		9/6/2023	9/6/2023
Fraction		-300/+3um	-300/+3um
Mass Size Distribution (%)		100	100
Calculated ESD Particle Size		32	37
Mineral Mass (%)	Chalcopyrite	0.00	0.00
	Covellite	0.00	0.00
	Pyrite/Marcasite	0.00	0.10
	Pyrrhotite	0.00	0.00
	Sphalerite	0.00	0.00
	Fe-Oxides	1.15	0.52
	Other Oxides	0.08	0.07
	Quartz	42.65	40.21
	Chlorite/Clays	10.98	8.60
	Talc	0.00	0.00
	Plagioclase	22.99	22.73
	K-Feldspar	21.38	27.04
	Amphibole/Pyroxene	0.02	0.03
	Epidote	0.00	0.01
	Titanite/sphene	0.00	0.00
	Other Silicates	0.64	0.54
	Calcite	0.04	0.05
	Carbonates	0.00	0.00
	Apatite	0.01	0.03
	Other	0.05	0.07
Total	100.00	100.00	
Mean Grain Size by Frequency (µm)	Chalcopyrite	9	12
	Covellite	0	12
	Pyrite/Marcasite	17	35
	Pyrrhotite	0	9
	Sphalerite	0	9
	Fe-Oxides	16	15
	Other Oxides	13	14
	Quartz	26	27
	Chlorite/Clays	11	11
	Talc	10	13
	Plagioclase	22	24
	K-Feldspar	28	32
	Amphibole/Pyroxene	11	11
	Epidote	9	12
	Titanite/sphene	9	20
	Other Silicates	10	10
	Calcite	15	13
Carbonates	13	11	
Apatite	11	20	
Other	15	17	

Notes:

Fe = Iron.

ft BGS = feet below ground surface.

QEMSCAN = Quantitative Evaluation of Materials by Scanning Electron Microscopy

µm = micrometer

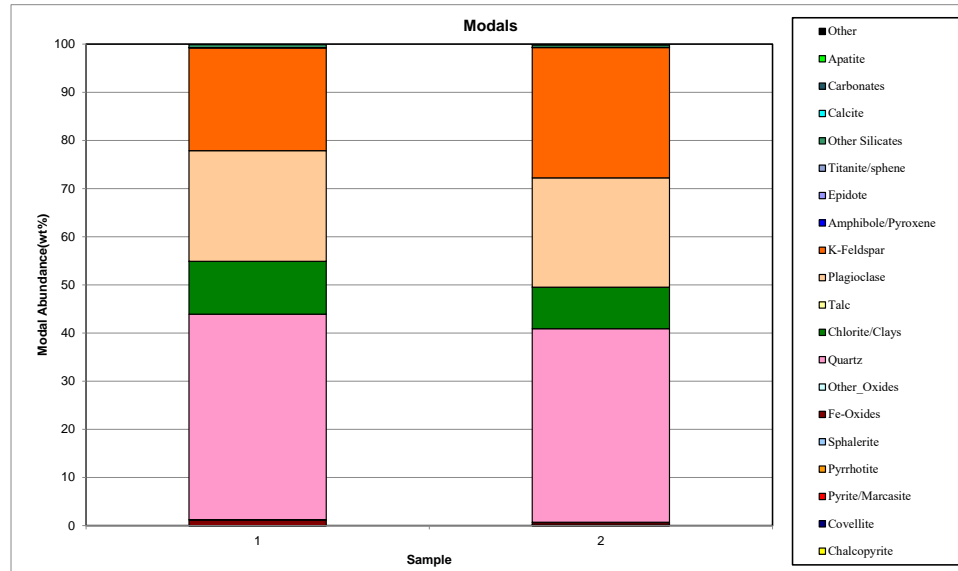


Table 7
 Summary of Sequential Extraction Procedure
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Location ID	SEP Fraction	WGWC-20	WGWC-26D
Sample Depth		33 to 38 ft BGS	55 to 65 ft BGS
Sample Date		9/6/2023	9/6/2023
Analyte			
Beryllium	Water Soluble	< 0.02	< 0.02
	Exchangeable Metals	< 0.02	< 0.02
	Carbonates	0.19	0.11
	Fe/Mn oxides	0.52	0.31
	Organics	0.10	0.06
	Residual	3.00	2.10
Lithium	Water Soluble	< 2	< 2
	Exchangeable Metals	< 2	< 2
	Carbonates	< 2	< 2
	Fe/Mn oxides	< 2	< 2
	Organics	< 2	< 2
	Residual	15.00	10.00

Notes:

All results are reported in µg of constituent per gram of total sample mass.

< = Indicates the parameter was not detected above the analytical method detection limit

SEP = sequential extraction procedure.

ft BGS = feet below ground surface.

Fe = Iron.

Mn = Manganese.

Table 8
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	WGWA-7
	Sample Date:	2/14/2023	8/14/2023	2/14/2023	8/14/2023	2/14/2023	8/15/2023	2/15/2023	8/15/2023	2/14/2023	8/15/2023	2/14/2023	8/15/2023	2/14/2023
	Constituent ^(1,2)													
Appendix III	Boron	0.026 J	<0.022	0.023 J	<0.022	<0.022	<0.022	<0.022	<0.022	0.030 J	<0.022	<0.022	<0.022	0.033 J
	Calcium	1.4	1.5	12	14	2.0	1.9	18	17	1.3	26	29	27	1.3
	Chloride	3.9	3.8	2.6	2.5	1.6	1.6	1.2	1.2	1.3	1.2	1.5	1.4	1.8
	Fluoride	<0.040	<0.040	0.070 J	0.061 J	0.041 J	0.040 J	0.14	0.14	<0.040	<0.040	0.11	0.12	<0.040
	pH ⁽³⁾	5.37	5.09	6.06	6.06	5.49	5.34	7.21	6.47	5.30	6.60	7.78	7.93	5.44
	Sulfate	<0.40	<0.40	0.66 J	0.74 J	0.65 J	0.71 J	7.8	7.4	0.66 J	1.2	7.9	7.3	<0.40
	TDS	34	37	100	110	27	34	100	110	24	82	120	130	24
Appendix IV	Antimony	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034
	Arsenic	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086
	Barium	0.050	0.050	0.022	0.025	0.015	0.014	0.0058 J	0.0055 J	0.018	0.016	0.0078 J	0.0072 J	0.011
	Beryllium	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Cadmium	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Chromium	<0.0012	0.0012 J	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	Cobalt	0.00073 J	0.00087 J	0.00052 J	0.00060 J	<0.00022	<0.00022	<0.00022	<0.00022	0.0011 J	0.00059 J	<0.00022	<0.00022	<0.00022
	Fluoride	<0.040	<0.040	0.070 J	0.061 J	0.041 J	0.040 J	0.14	0.14	<0.040	<0.040	0.11	0.12	<0.040
	Lead	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021
	Lithium	0.0029 J	<0.0020	0.0060	0.0026 J	<0.0020	<0.0020	0.0041 J	<0.0020	<0.0020	<0.0020	0.0045 J	<0.0020	<0.0020
	Mercury	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080
	Molybdenum	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086
	Comb. Radium 226/228	0.827	1.04	0.421 U	0.585 U	0.605	0.569 U	1.59	1.40	0.741	0.391 U	8.54	11.4	-0.022 U
Selenium	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	
Thallium	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	
Major Ions	Bicarbonate Alkalinity	390	--	240	--	270	--	110	--	97.0	--	150	--	160
	Total Alkalinity	390	--	240	--	270	--	110	--	97.0	--	150	--	160
	Iron	<0.012	--	<0.012	--	<0.012	--	1.0	--	0.055	--	0.28	--	<0.012
	Magnesium	1.3	--	4.4	--	1.2	--	2.8	--	0.78	--	2.4	--	0.69
	Manganese	0.010	--	0.033	--	<0.0022	--	0.18	--	0.0066	--	0.15	--	0.0024 J
	Potassium	1.3	--	2.5	--	1.4	--	2.9	--	1.3	--	3.4	--	0.89
	Sodium	3.6	--	9.8	--	3.0	--	7.9	--	1.6	--	6.1	--	2.7
Sulfide	<0.83	--	<0.81	--	<0.81	--	<0.81	--	<0.81	--	<0.81	--	<0.81	

Notes:

-- = Parameter was not analyzed.

TDS = total dissolved solids

< = Indicates the parameter was not detected above the analytical method detection limit (MDL)

J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL)

U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)

(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 and Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM 2540C, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field.

Table 8
Summary of Groundwater Analytical Data
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWA-7	WGWA-18	WGWA-18	WGWC-8	WGWC-8	WGWC-9	WGWC-9	WGWC-10	WGWC-10	WGWC-11	WGWC-11	WGWC-12	WGWC-12
	Sample Date:	8/15/2023	2/14/2023	8/15/2023	2/16/2023	8/15/2023	2/15/2023	8/16/2023	2/16/2023	8/17/2023	2/16/2023	8/16/2023	2/16/2023	8/16/2023
	Constituent ^(1,2)													
Appendix III	Boron	<0.022	<0.022	<0.022	2.8	2.8	0.69	0.60	0.040 J	0.031 J	<0.022	<0.022	0.024 J	<0.022
	Calcium	1.8	5.7	8.3	92	96	11	11	6.9	8.0	1.7	1.7	12	15
	Chloride	1.7	1.9	1.8	120	110	3.9	3.3	1.3	1.3	3.3	3.3	2.9	2.8
	Fluoride	<0.040	0.053 J	0.051 J	0.14	0.15 J	0.85	0.90	0.11	0.10	0.041 J	0.041 J	0.089 J	0.083 J
	pH ⁽³⁾	5.49	5.89	6.01	5.22	5.43	5.86	5.78	6.39	6.49	5.69	5.17	6.61	6.10
	Sulfate	0.45 J	7.3	6.8	250	240	65	50	1.8	1.7	1.0	1.0	2.8	12
	TDS	29	42	56	590	680	160	110	54	56	33	33	89	92
Appendix IV	Antimony	<0.00034	<0.00034	<0.00034	0.00064 J	0.0079	0.00048 J	0.0011 J	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034
	Arsenic	<0.00086	<0.00086	<0.00086	<0.00086	0.00087 J	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086
	Barium	0.013	0.013	0.016	0.00093 J	0.0019 J	<0.00089	<0.00089	0.032	0.036	0.041	0.044	0.014	0.017
	Beryllium	<0.00020	<0.00020	<0.00020	0.0025	0.0024 J	0.00044 J	0.00040 J	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Cadmium	<0.000078	<0.000078	<0.000078	0.00065 J	0.00013 J	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Chromium	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.0014 J	0.0029	<0.0012	<0.0012	<0.0012
	Cobalt	<0.00022	0.001 J	0.00075 J	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	0.00038 J	<0.00022	<0.00022	0.0004 J	0.00025 J
	Fluoride	<0.040	0.053 J	0.051 J	0.14	0.15 J	0.85	0.90	0.11	0.10	0.041 J	0.041 J	0.089 J	0.083 J
	Lead	<0.00021	<0.00021	<0.00021	0.00029 J	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021
	Lithium	<0.0020	<0.0020	<0.0020	0.010	0.0084	0.033	0.030	0.0025 J	0.0024 J	<0.0020	<0.0020	0.0036 J	0.0056
	Mercury	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080
	Molybdenum	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	0.0025 J	0.0031 J	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086
	Comb. Radium 226/228	-0.139 U	0.753	0.426 U	3.04	2.65	0.011 U	0.209 U	0.326 U	-0.112 U	0.417 U	0.297 U	0.388 U	0.450 U
Selenium	<0.00099	<0.00099	<0.00099	0.0033 J	0.0037 J	<0.00099	0.0036 J	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	
Thallium	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	
Major Ions	Bicarbonate Alkalinity	--	83.0	--	9.7	--	140	--	33.0	--	11.0	--	43.0	--
	Total Alkalinity	--	83.0	--	9.7	--	140	--	33.0	--	11.0	--	43.0	--
	Iron	--	0.11	--	<0.048	--	<0.012	--	<0.012	--	0.022 J	--	1.5	--
	Magnesium	--	1.3	--	24.0	--	3.1	--	1.6	--	1.3	--	2.6	--
	Manganese	--	0.11	--	0.0083	--	0.0052	--	0.0056	--	0.016	--	0.013	--
	Potassium	--	2.5	--	9.5	--	1.5	--	1.7	--	1.2	--	2.0	--
	Sodium	--	4.4	--	38.0	--	25.0	--	3.6	--	3.4	--	5.8	--
Sulfide	--	1.2	--	<0.83	--	<0.83	--	<0.81	--	<0.83	--	<0.83	--	

Notes:

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(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).

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(3) The pH value presented was recorded at the time of sample collection in the field.

Table 8
Summary of Groundwater Analytical Data
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWC-13	WGWC-13	WGWC-14A	WGWC-14A	WGWC-15	WGWC-15	WGWC-16	WGWC-16	WGWC-17	WGWC-17	WGWC-19	WGWC-19	WGWC-20
	Sample Date:	2/16/2023	8/16/2023	2/16/2023	8/16/2023	2/15/2023	8/16/2023	2/15/2023	8/15/2023	2/16/2023	8/16/2023	2/16/2023	8/16/2023	2/16/2023
	Constituent ^(1,2)													
Appendix III	Boron	0.033 J	<0.022	0.030 J	<0.022	<0.022	<0.022	0.86	0.81	<0.022	<0.022	<0.022	<0.022	3.5
	Calcium	3.8	4.1	0.70	0.70	31	32	26	23	6.0	6.3	13	14	190
	Chloride	0.97 J	0.91 J	1.9	1.8	1.0	0.95 J	42	34	1.2	1.1	2.6	2.5	230
	Fluoride	0.15	0.13	<0.040	0.040 J	0.73	0.73	0.076 J	0.065 J	0.069 J	0.064 J	0.33	0.34	1.9
	pH ⁽³⁾	6.27	6.22	5.40	5.17	7.72	7.41	5.19	5.07	6.23	6.13	6.80	6.44	5.17
	Sulfate	2.3	2.1	0.47 J	0.52 J	14	13	54	52	2.6	2.6	3.0	2.6	350
	TDS	81	84	27	29	130	150	160	160	77	81	100	100	960
Appendix IV	Antimony	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034
	Arsenic	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086
	Barium	0.037	0.042	0.028	0.026	0.029	0.030	0.044	0.039	0.010	0.012	0.00096 J	0.0014 J	<0.00089
	Beryllium	<0.00020	<0.00020	0.00031 J	0.00023 J	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.011
	Cadmium	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	0.000085 J	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	0.00057 J
	Chromium	0.0045	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	Cobalt	<0.00022	0.00024 J	0.0022 J	0.0020 J	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	0.00053 J	0.00026 J	<0.00022
	Fluoride	0.15	0.13	<0.040	0.040 J	0.73	0.73	0.076 J	0.065 J	0.069 J	0.064 J	0.33	0.34	1.9
	Lead	0.00027 J	0.00025 J	0.00024 J	0.00022 J	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021
	Lithium	<0.0020	<0.0020	<0.0020	<0.0020	0.0062	0.0055	0.0044 J	<0.0020	0.0026 J	0.0031 J	0.053	0.062	0.14
	Mercury	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080
	Molybdenum	0.0013 J	0.0012 J	<0.00086	<0.00086	0.0027 J	0.0030 J	<0.00086	<0.00086	0.0022 J	0.0023 J	0.0014 J	0.0013 J	<0.00086
	Comb. Radium 226/228	0.200 U	-0.0900 U	0.455 U	0.277 U	0.088 U	0.0271 U	0.734	0.732	0.121 U	0.533 U	0.248 U	0.369 U	0.853
Selenium	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	0.0019 J	0.0018 J	<0.00099	<0.00099	<0.00099	<0.00099	0.0017 J	
Thallium	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	
Major Ions	Bicarbonate Alkalinity	33.0	--	12.0	--	130	--	260	--	46.0	--	88.0	--	9.5
	Total Alkalinity	33.0	--	12.0	--	130	--	260	--	46.0	--	88.0	--	9.5
	Iron	0.095	--	0.044 J	--	0.012 J	--	<0.012	--	0.15	--	0.14	--	<0.012
	Magnesium	0.48 J	--	0.71	--	5.0	--	8.4	--	3.5	--	9.0	--	44.0
	Manganese	<0.0022	--	0.055	--	0.0074	--	0.017	--	0.0072	--	0.019	--	0.36
	Potassium	1.7	--	1.7	--	1.5	--	2.8	--	1.7	--	1.3	--	6.6
	Sodium	9.3	--	4.0	--	10.0	--	12.0	--	9.2	--	7.6	--	54.0
Sulfide	<0.81	--	<0.81	--	<0.83	--	<0.83	--	<0.81	--	<0.83	--	<0.86	

Notes:

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Table 8
Summary of Groundwater Analytical Data
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWC-20	WGWC-21	WGWC-21	WGWC-22	WGWC-22	WGWC-23	WGWC-23	WGWC-24	WGWC-24	WGWC-25	WGWC-25	WGWC-26D	WGWC-26D
	Sample Date:	8/11/2023	2/16/2023	8/17/2023	2/15/2023	8/17/2023	2/15/2023	8/17/2023	2/15/2023	8/17/2023	2/15/2023	8/15/2023	2/16/2023	8/11/2023
	Constituent ^(1,2)													
Appendix III	Boron	3.1	0.14	0.12	0.39	0.33	0.049 J	<0.022	1.4	0.59	0.89	0.57	3.9	3.3
	Calcium	150	68	63	26	16	2.4	4.2	39	18	18	28	180	140
	Chloride	190	51	47	4.6	3.9	2.9	2.9	39	22	79	35	280	200
	Fluoride	2.1	1.9	1.8	0.31	0.32	0.048 J	0.045 J	0.63	0.28	<0.040	0.049 J	1.7	2.2
	pH ⁽³⁾	5.31	6.92	6.91	5.47	5.41	5.49	5.66	4.54	4.37	5.36	5.97	5.52	5.68
	Sulfate	330	340	310	110	71	5.2	4.9	120	50	27	19	370	350
	TDS	910	630	690	210	180	71	73	230	150	200	180	1100	950
Appendix IV	Antimony	0.00069 J	<0.00034	<0.00034	0.0012 J	<0.00034	0.0022	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	0.0009 J
	Arsenic	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086
	Barium	<0.00089	0.0053 J	0.0044 J	0.033	0.021	0.0055 J	0.010	0.036	0.046	0.33	0.19	0.0045 J	0.0040 J
	Beryllium	0.0099	<0.00020	0.00021 J	0.00067 J	0.00060 J	0.0012 J	0.0013 J	0.0099	0.0049	0.00026 J	<0.00020	0.0079	0.0071
	Cadmium	0.00019 J	<0.000078	<0.000078	0.00028 J	<0.000078	<0.000078	<0.000078	0.00057 J	0.000095 J	0.0001 J	<0.000078	0.00018 J	0.00011 J
	Chromium	<0.0012	0.0015 J	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	Cobalt	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	0.084	0.035	0.0049	0.0081	0.0014 J	0.0011 J
	Fluoride	2.1	1.9	1.8	0.31	0.32	0.048 J	0.045 J	0.63	0.28	<0.040	0.049 J	1.7	2.2
	Lead	<0.00021	<0.00021	<0.00021	0.00023 J	<0.00021	0.0046	<0.00021	0.00056 J	0.00029 J	<0.00021	<0.00021	<0.00021	<0.00021
	Lithium	0.13	0.053	0.061	0.0090	0.0069	<0.0020	<0.0020	0.0068	0.0022 J	0.0031 J	<0.0020	0.17	0.15
	Mercury	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080
	Molybdenum	<0.00086	0.034	0.029	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	0.006 J	0.0037 J
	Comb. Radium 226/228	0.591 U	0.617	2.44	5.98	4.47	0.985	1.91	0.974	1.62	0.873	0.581 U	5.49	4.83
Selenium	0.0016 J	<0.00099	<0.00099	0.0077	0.0038 J	0.0026 J	0.0024 J	<0.00099	<0.00099	<0.00099	<0.00099	0.0012 J	0.0016 J	
Thallium	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	0.00045 J	0.00028 J	<0.00026	<0.00026	<0.00026	<0.00026	
Major Ions	Bicarbonate Alkalinity	--	110	--	340	--	82.0	--	9.0	--	8.0	--	21.0	--
	Total Alkalinity	--	110	--	340	--	82.0	--	9.0	--	8.0	--	21.0	--
	Iron	--	0.079	--	0.13	--	<0.012	--	<0.012	--	0.11	--	1.6	--
	Magnesium	--	9.0	--	6.4	--	0.45 J	--	7.7	--	22.0	--	57.0	--
	Manganese	--	0.04	--	0.018	--	0.0038 J	--	2.8	--	0.27	--	0.73	--
	Potassium	--	3.1	--	6.3	--	2.2	--	8.8	--	3.8	--	4.6	--
	Sodium	--	160	--	24.0	--	13.0	--	9.9	--	12.0	--	53.0	--
Sulfide	--	1.1	--	<0.81	--	<0.83	--	<0.83	--	<0.83	--	<0.83	--	

Notes:

-- = Parameter was not analyzed.

TDS = total dissolved solids

< = Indicates the parameter was not detected above the analytical method detection limit (MDL)

J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL)

U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)

(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 and Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM 2540C, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field.

Table 8
Summary of Groundwater Analytical Data
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWC-27	WGWC-27	WGWC-28D	WGWC-28D	PZ-26D	PZ-A2D	PZ-A2M	PZ-A2S
	Sample Date:	2/16/2023	8/11/2023	9/26/2023	11/7/2023	8/17/2023	2/17/2023	2/17/2023	2/17/2023
	Constituent ^(1,2)								
Appendix III	Boron	0.22	0.35	4.4	4.4	0.08	0.25	49	21
	Calcium	19	25	270	310	16	93	1300	680
	Chloride	22	29	540	600	14	10	1100	220
	Fluoride	0.92	1.1	1.6	2.1	0.22	0.62	0.072 J	0.44
	pH ⁽³⁾	5.91	6.07	--	6.48	6.11	7.61	9.84	9.66
	Sulfate	29	31	380	480	31	120	1400	1500
	TDS	160	180	1400	1,600	150	290	4100	2600
Appendix IV	Antimony	0.00047 J	0.0015 J	0.00057 J	--	0.00038 J	--	--	--
	Arsenic	<0.00086	<0.00086	0.0013	--	<0.00086	--	--	--
	Barium	0.0049 J	0.0047 J	0.016	--	0.024	--	--	--
	Beryllium	0.00046 J	0.00052 J	0.00073 J	--	<0.0002	<0.0025	0.00022 J	<0.0025
	Cadmium	0.00008 J	<0.000078	<0.000078	--	<0.000078	--	--	--
	Chromium	<0.0012	<0.0012	0.002	--	<0.0012	--	--	--
	Cobalt	0.0013 J	0.0018 J	0.00072 J	--	0.017	--	--	--
	Fluoride	0.92	1.1	1.6	2.1	0.22	--	--	--
	Lead	<0.00021	<0.00021	<0.00021	--	<0.00021	--	--	--
	Lithium	0.024	0.036	0.18	0.21	0.028	<0.005	0.18	0.07
	Mercury	<0.000080	<0.000080	<0.000080	--	<0.00008	--	--	--
	Molybdenum	<0.00086	<0.00086	0.018	--	0.0025 J	--	--	--
	Comb. Radium 226/228	2.16	3.88	15.4	--	1.44	--	--	--
Selenium	<0.00099	<0.00099	<0.00099	--	<0.00099	--	--	--	
Thallium	<0.00026	<0.00026	<0.00026	--	<0.00026	--	--	--	
Major Ions	Bicarbonate Alkalinity	35.0	--	--	76	--	96	<5	8.6
	Total Alkalinity	35.0	--	--	76	--	96	180	82
	Iron	0.42	--	--	2.1	--	0.025 J	0.34	0.17
	Magnesium	3.2	--	--	54	--	1.4	11	20
	Manganese	0.43	--	--	2	--	0.0087	0.012	0.17
	Potassium	2.0	--	--	61	--	6.3	33	14
	Sodium	15.0	--	--	170	--	2.7	28	16
Sulfide	<0.83	--	--	3.3	--	<0.86	<0.81	<0.81	

Notes:

-- = Parameter was not analyzed.

TDS = total dissolved solids

< = Indicates the parameter was not detected above the analytical method detection limit (MDL)

J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL)

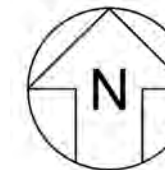
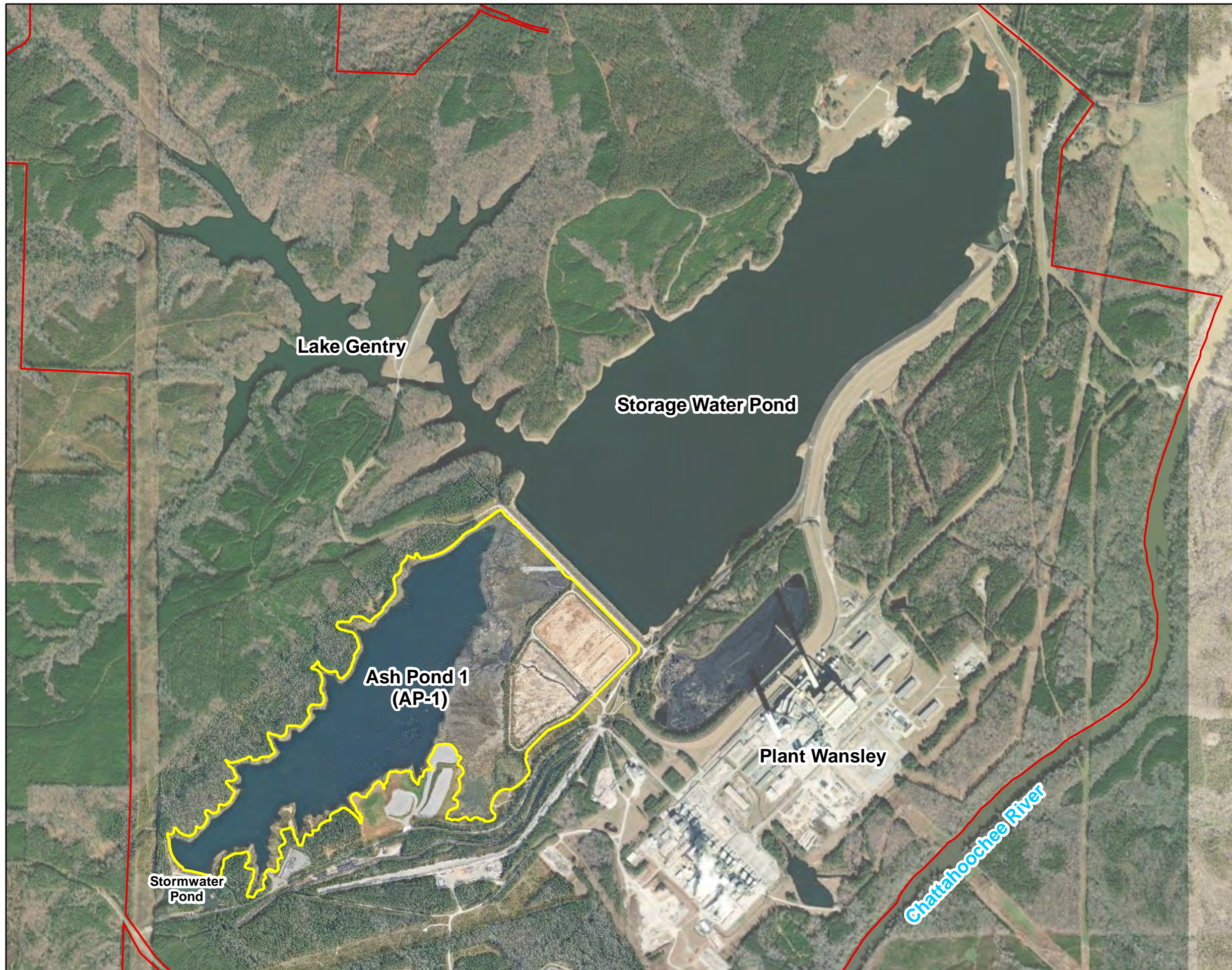
U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)

(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 and Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM 2540C, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field.

FIGURES



Legend

- Approximate Property Boundary
- Approximate AP-1 Boundary



Notes:
 1. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, June 24, 2023.
 2. Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, April 13, 2023.



SITE LOCATION MAP

GEORGIA POWER COMPANY
 PLANT WANSLEY AP-1
 HEARD AND CARROLL COUNTIES, GEORGIA

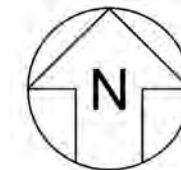
Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

KENNESAW, GA

JANUARY 2024

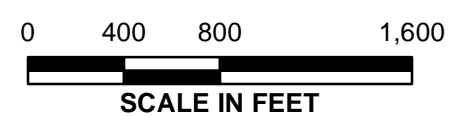
FIGURE
1



- Legend**
- + Detection Monitoring Well
 - + Horizontal Assessment Monitoring Well
 - + Vertical Assessment Monitoring Well
 - + Piezometer
 - Approximate AP-1 Boundary



- Notes:**
1. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, June 24, 2023.
 2. Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, April 13, 2023.
 3. Assessment monitoring wells installed September 2022 and August 2023.



**GROUNDWATER MONITORING
WELL NETWORK MAP**

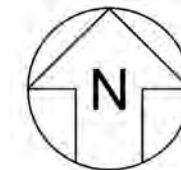
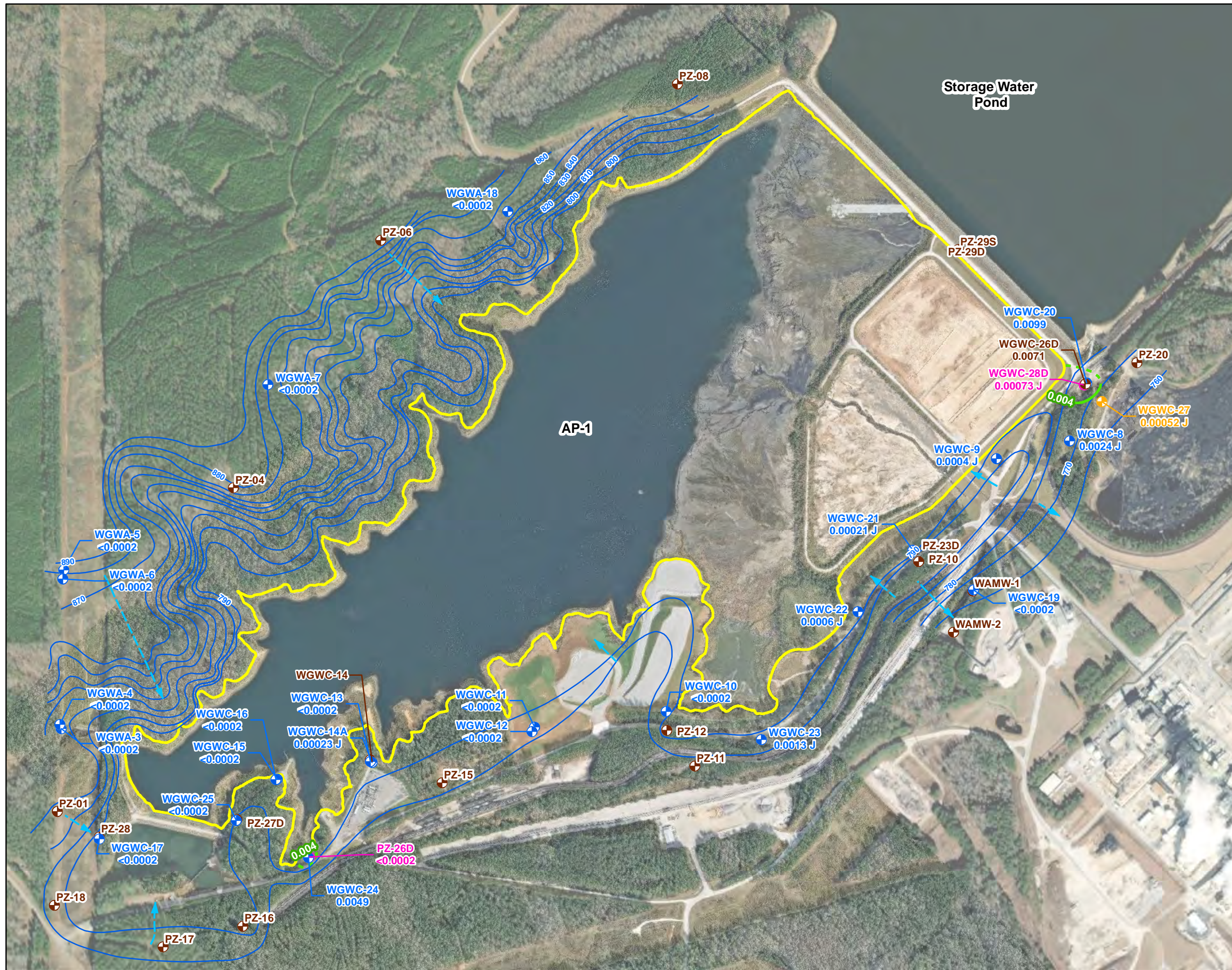
GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

**FIGURE
2**

KENNESAW, GA JANUARY 2024



- Legend**
- + Detection Monitoring Well
 - + Horizontal Assessment Monitoring Well
 - + Vertical Assessment Monitoring Well
 - + Piezometer
 - Groundwater Elevation Iso-Contour
 - - - Approximate Groundwater Flow Direction
 - Approximate AP-1 Boundary
 - Beryllium GWPS Iso-Concentration Contour (mg/L)
 - - - Beryllium GWPS Iso-Concentration Contour (mg/L) Inferred

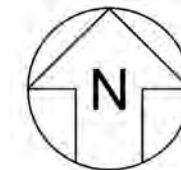
- Notes:**
1. Concentration data from groundwater samples was collected during the August 2023 semi annual monitoring event.
 2. Concentrations are reported in milligrams per liter (mg/L).
 3. Water level elevation recorded on August 8, 2023. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88. Assessment wells were installed in September 2022 and not used for potentiometric contouring.
 4. The Groundwater Protection Standard (GWPS) for Beryllium is 0.004 mg/L.
 5. J - Estimated value and detected between the analytical method detection limit and the reporting limit.
 6. Data reported for wells screened deeper in the aquifer were not used for iso-concentration contour (WGWC-26D and WGWC-28D).
 7. WGWC-28D was installed by Cascade Drilling, Inc. August 2023 and surveyed September 5, 2023. Sample collected in September 2023.
 8. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, June 24, 2023.
 9. Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, April 13, 2023.



**ISO-CONCENTRATION MAP,
BERYLLIUM - AUGUST 2023**

GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For: Georgia Power	FIGURE 3
Prepared By: Geosyntec consultants	
KENNESAW, GA	JANUARY 2024



- Legend**
- Detection Monitoring Well
 - Horizontal Assessment Monitoring Well
 - Vertical Assessment Monitoring Well
 - Piezometer
 - Groundwater Elevation Iso-Contour
 - ▶ Approximate Groundwater Flow Direction
 - Approximate AP-1 Boundary
 - Cobalt GWPS Iso-Concentration Contour (mg/L)
 - - - Cobalt GWPS Iso-Concentration Contour (mg/L) Inferred

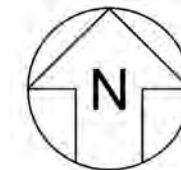
- Notes:**
1. Concentration data from groundwater samples was collected during the August 2023 semi annual monitoring event.
 2. Concentrations are reported in milligrams per liter (mg/L).
 3. Water level elevation recorded on August 8, 2023. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88. Assessment wells were installed in September 2022 and not used for potentiometric contouring.
 4. The Groundwater Protection Standard (GWPS) for cobalt is 0.013 mg/L.
 5. J - Estimated value and detected between the analytical method detection limit and the reporting limit.
 6. Data reported for wells screened deeper in the aquifer were not used for iso-concentration contour (WGWC-26D).
 7. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, January 2023.
 8. Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, April 13, 2023.



**ISO-CONCENTRATION MAP,
COBALT - AUGUST 2023**

GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For: Georgia Power	FIGURE	
Prepared By: Geosyntec consultants		
KENNESAW, GA	JANUARY 2024	4



- Legend**
- Detection Monitoring Well
 - Horizontal Assessment Monitoring Well
 - Vertical Assessment Monitoring Well
 - Piezometer
 - Approximate Groundwater Flow Direction
 - Groundwater Elevation Iso-Contour
 - Approximate AP-1 Boundary
 - Lithium GWPS Iso-Concentration Contour (mg/L)
 - - - Lithium GWPS Iso-Concentration Contour (mg/L) Inferred

- Notes:**
1. Concentration data from groundwater samples was collected during the August 2023 semi annual monitoring event.
 2. Concentrations are reported in milligrams per liter (mg/L).
 3. Water level elevation recorded on August 8, 2023. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88. Assessment wells were installed in September 2022 and not used for potentiometric contouring.
 4. The Groundwater Protection Standard (GWPS) for lithium is 0.040 mg/L.
 5. J - Estimated value and detected between the analytical method detection limit and the reporting limit.
 6. Data reported for wells screened deeper in the aquifer were not used for iso-concentration contour (WGWC-26D and WGWC-28D).
 7. WGWC-28D was installed by Cascade Drilling, Inc. August 2023 and surveyed September 5, 2023. Sample collected in September 2023.
 8. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, June 24, 2023.
 9. Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, April 13, 2023.



**ISO-CONCENTRATION MAP,
LITHIUM - AUGUST 2023**

GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

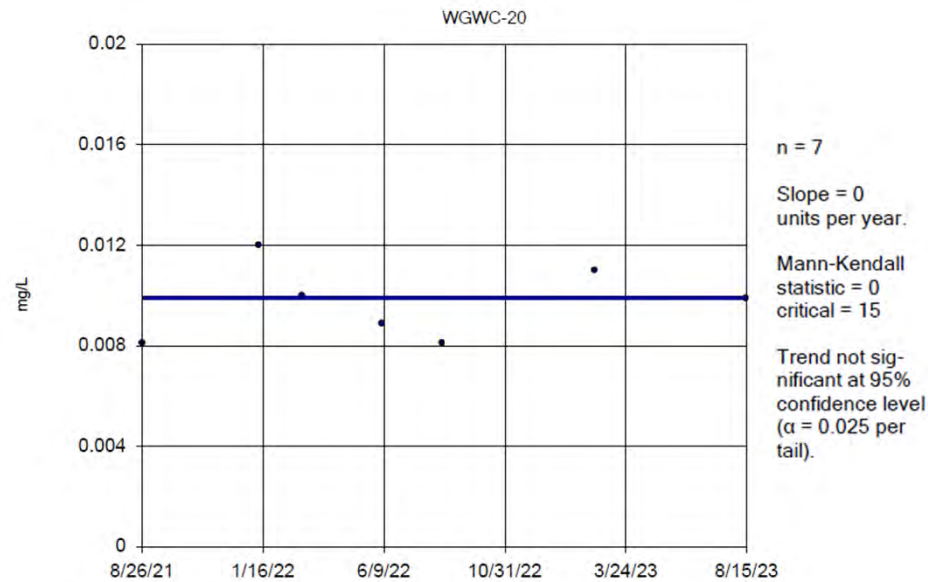
Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

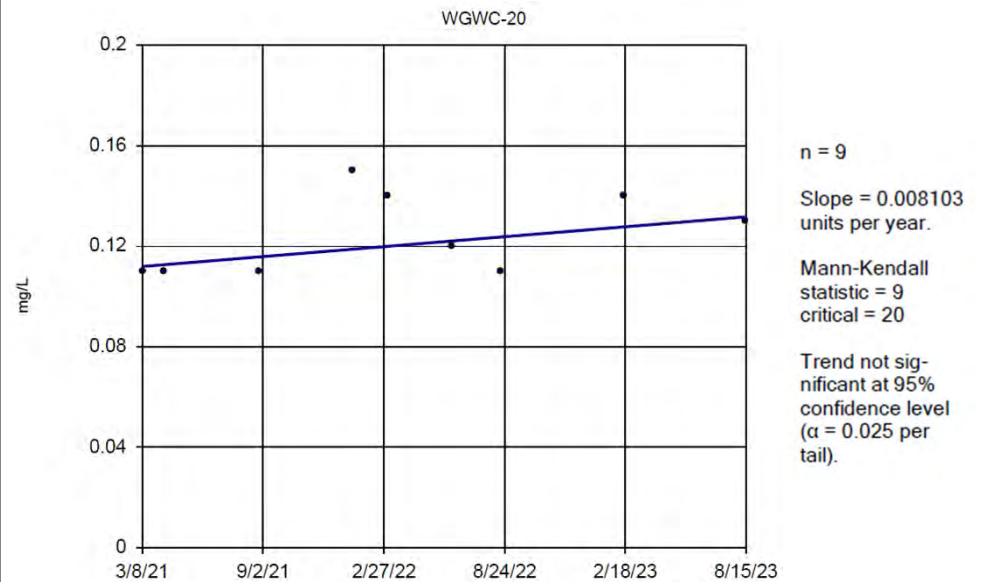
**FIGURE
5**

KENNESAW, GA JANUARY 2024

Beryllium



Lithium



Notes:

1. Groundwater trends completed by Groundwater Stats Consulting using groundwater data collected for the full monitoring period through the August 2023 semiannual sampling event.
2. Trends shown are in wells where statistically significant levels (SSLs) have been identified.
3. mg/L = milligrams per liter

Beryllium and Lithium Concentration Trends in WGWC-20

Georgia Power Company
Plant Wansley AP-1
Heard and Carroll County, Georgia

Prepared For:



Prepared By:



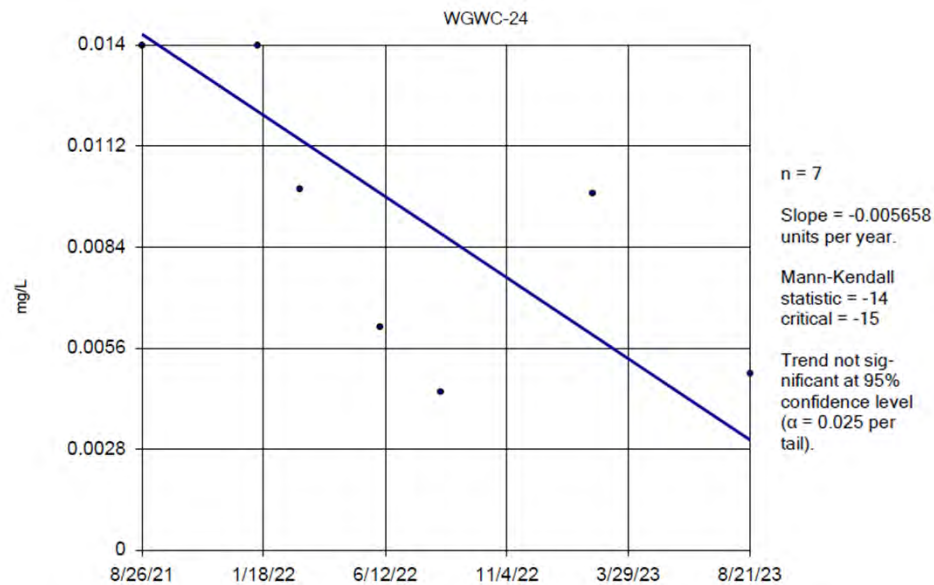
FIGURE

6a

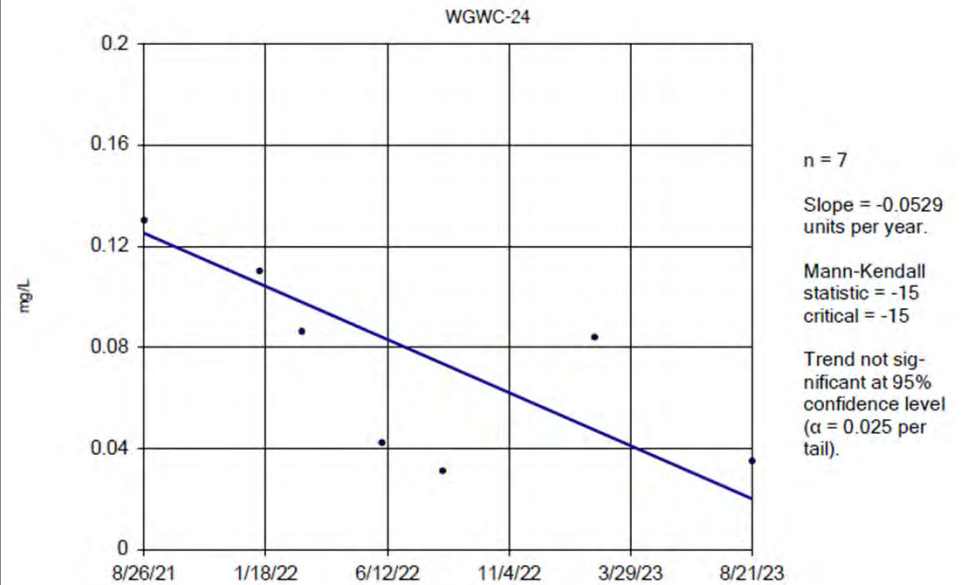
Kennesaw, GA

January 2024

Beryllium



Cobalt



Notes:

1. Groundwater trends completed by Groundwater Stats Consulting using groundwater data collected for the full monitoring period through the August 2023 semiannual sampling event.
2. Trends shown are in wells where statistically significant levels (SSLs) have been identified.
3. mg/L = milligrams per liter

Beryllium and Cobalt Concentration Trends in WGWC-24

Georgia Power Company
 Plant Wansley AP-1
 Heard and Carroll County, Georgia

Prepared For:



Prepared By:

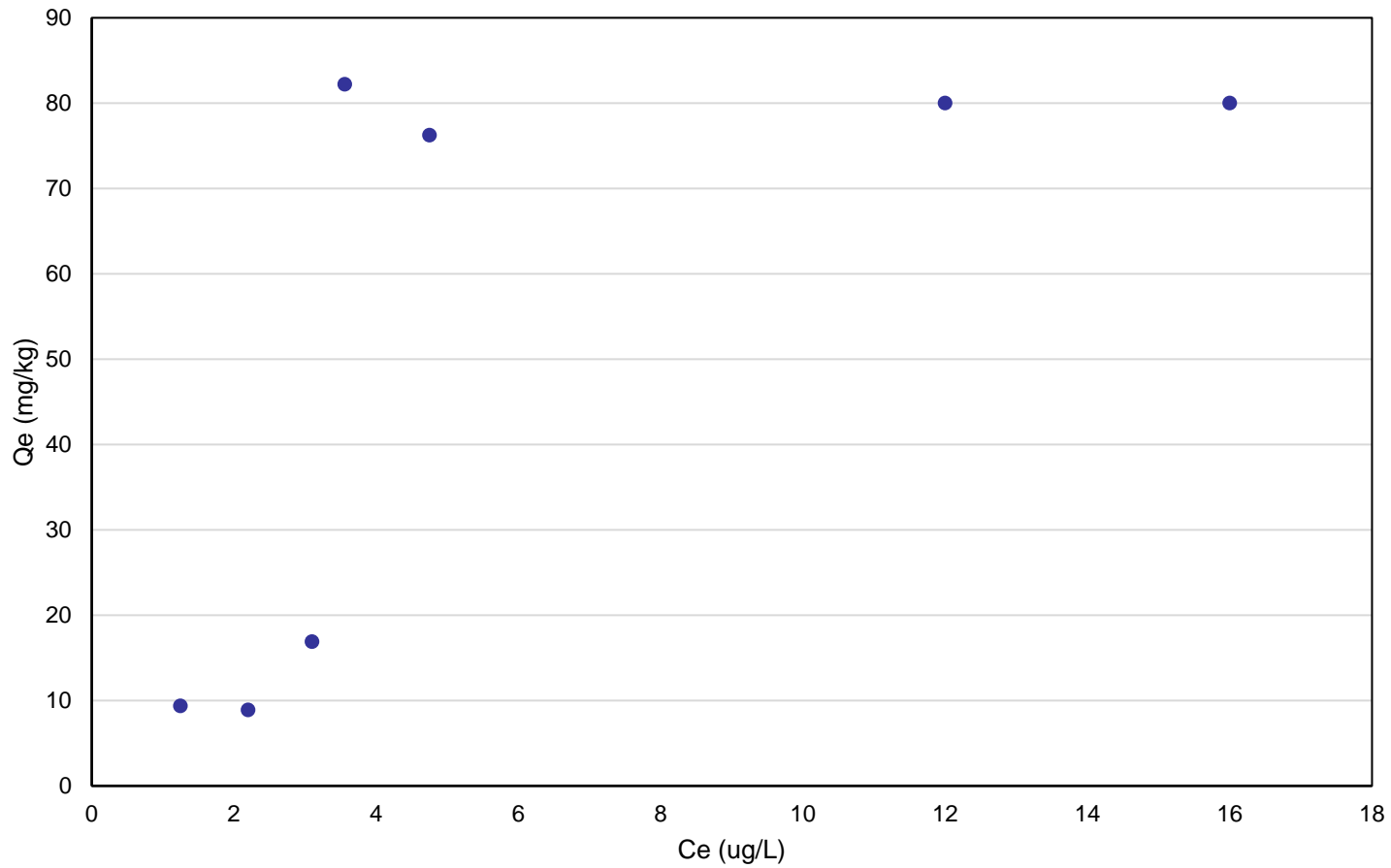


FIGURE

6b

Kennesaw, GA

January 2024



Notes:

1. Ce = measured dissolved beryllium concentration in micrograms per liter
2. Qe = calculated adsorbed beryllium concentration in milligrams per kilogram

Beryllium Sorption Isotherm

Georgia Power Company
 Plant Wansley AP-1
 Heard and Carroll County, Georgia

Prepared For:

Prepared By:



FIGURE

8

Kennesaw, GA

January 2024

APPENDIX A

Potable Well Survey

Plant Wansley

1371 Liberty Church Rd
Franklin, GA 30217

Inquiry Number: 07486238.1r
November 01, 2023

The EDR GeoCheck® Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

PLANT WANSLEY
1371 LIBERTY CHURCH RD
FRANKLIN, GA 30217

TARGET PROPERTY COORDINATES

Latitude (North):	33.421477 - 33° 25' 17.32"
Longitude (West):	85.043422 - 85° 2' 36.32"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	681919.4
UTM Y (Meters):	3699532.2
Elevation:	771 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	33085-D1 LOWELL, GA
Version Date:	1982

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

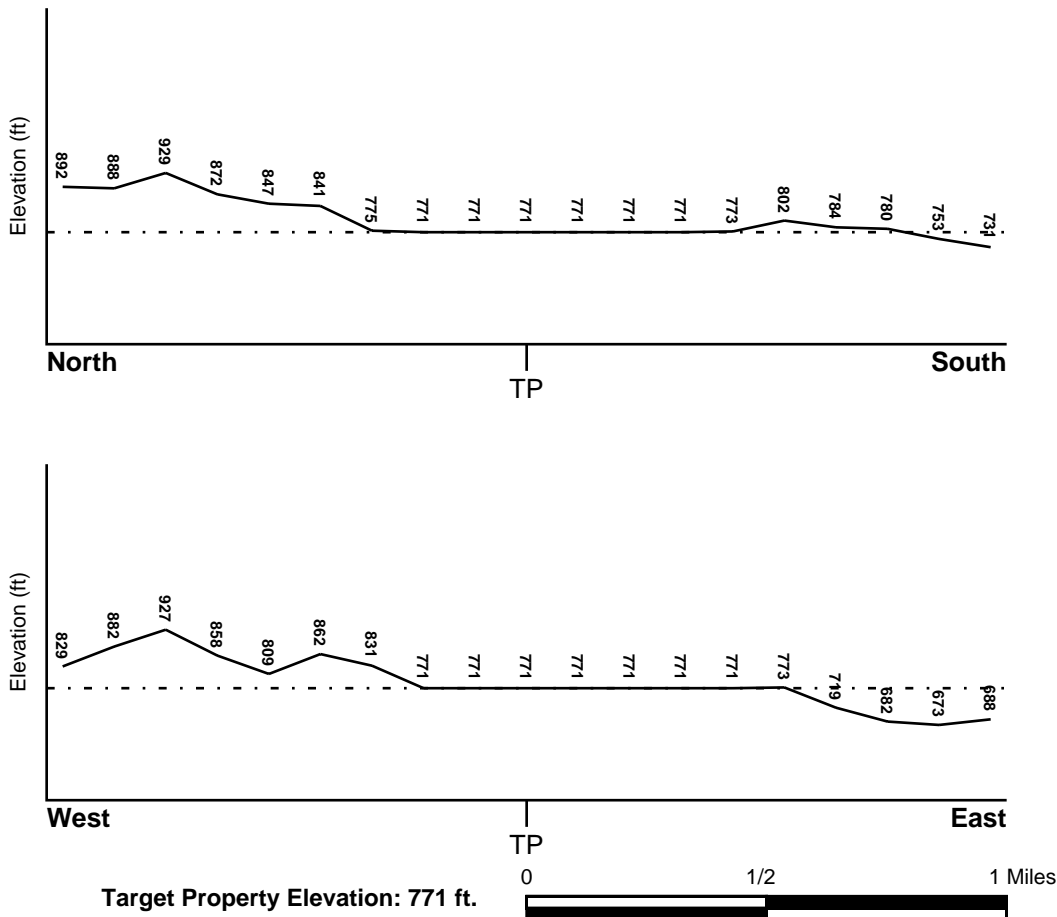
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
13077C0095D	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
Not Reported	

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
LOWELL	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

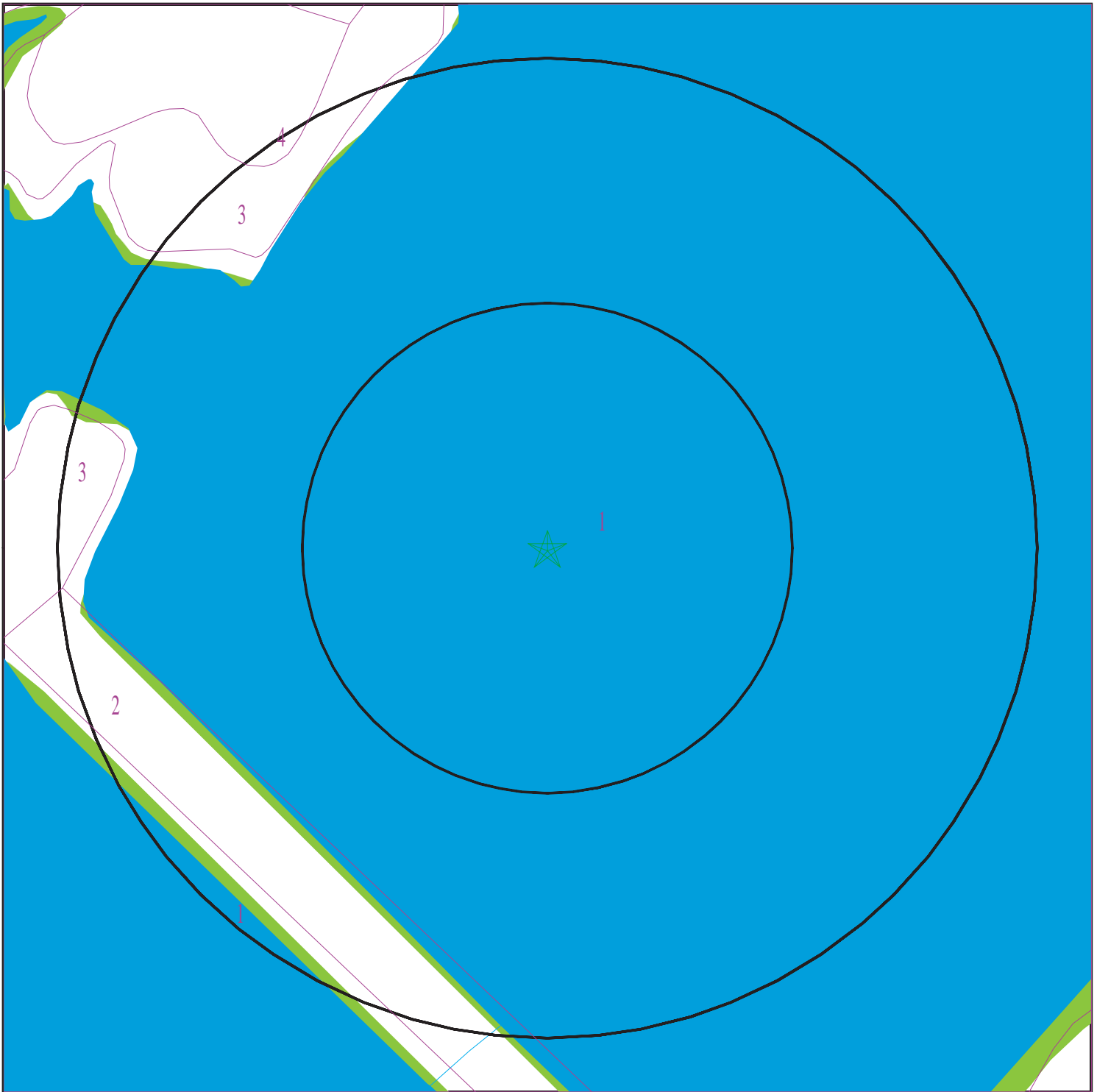
Era:	Paleozoic
System:	Pennsylvanian
Series:	Cataclastic rocks
Code:	cat (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

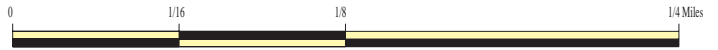
Category: Metamorphic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 07486238.1r



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Plant Wansley
ADDRESS: 1371 Liberty Church Rd
Franklin GA 30217
LAT/LONG: 33.421477 / 85.043422

CLIENT: Geosyntec Consultants
CONTACT: Anthony Szwast
INQUIRY #: 07486238.1r
DATE: November 01, 2023 1:55 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Water

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: Dam

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Louisa

Soil Surface Texture: weathered bedrock

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat excessively drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	16 inches	83 inches	weathered bedrock	Not reported	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 4.5
2	0 inches	5 inches	gravelly fine sandy loam	Not reported	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 4.5
3	5 inches	16 inches	gravelly loam	Not reported	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 4.5

Soil Map ID: 4

Soil Component Name: Madison

Soil Surface Texture: gravelly fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	5 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	35 inches	51 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	2.000
Federal FRDS PWS	2.000
State Database	2.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS40000263025	1/4 - 1/2 Mile SSE
A4	USGS40000263022	1/2 - 1 Mile SSE
B6	USGS40000262995	1/2 - 1 Mile SSW
C8	USGS40000263163	1 - 2 Miles NNE
D9	USGS40000262969	1 - 2 Miles SW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
E12	USGS40000262948	1 - 2 Miles SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

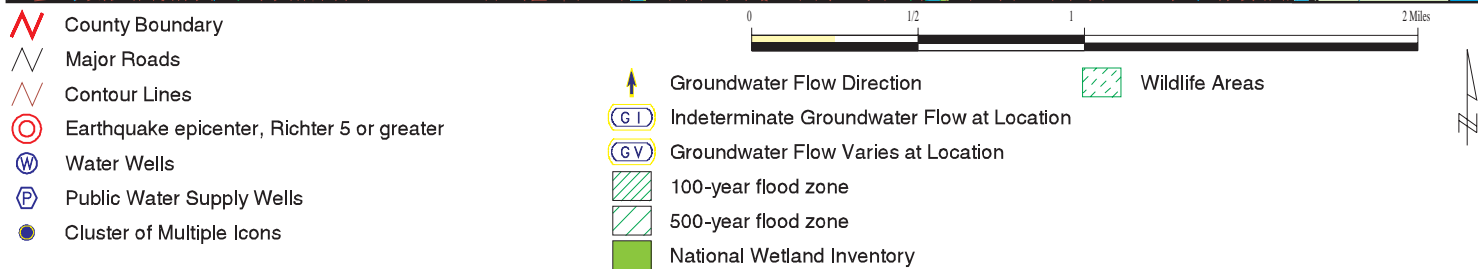
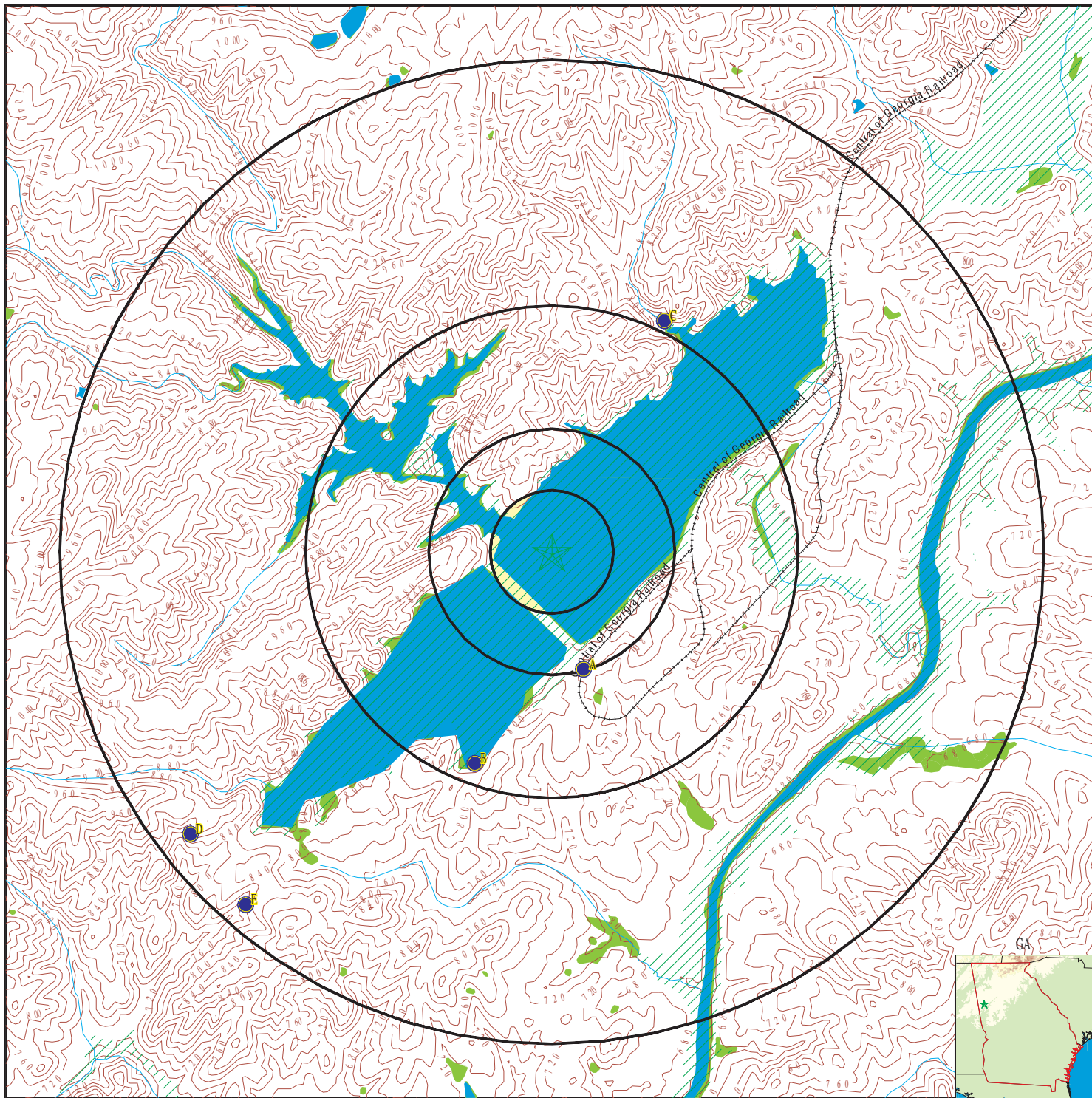
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	0000006110	1/4 - 1/2 Mile SSE
A3	0000006108	1/2 - 1 Mile SSE
B5	0000006106	1/2 - 1 Mile SSW
C7	0000001364	1 - 2 Miles NNE
D10	0000006105	1 - 2 Miles SW
E11	0000006104	1 - 2 Miles SW

PHYSICAL SETTING SOURCE MAP - 07486238.1r



<p>SITE NAME: Plant Wansley ADDRESS: 1371 Liberty Church Rd Franklin GA 30217 LAT/LONG: 33.421477 / 85.043422</p>	<p>CLIENT: Geosyntec Consultants CONTACT: Anthony Szwest INQUIRY #: 07486238.1r DATE: November 01, 2023 1:55 pm</p>
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
SSE
1/4 - 1/2 Mile
Higher

FED USGS USGS40000263025

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	05BB31	Type:	Well
Description:	Not Reported	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1900
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

A2
SSE
1/4 - 1/2 Mile
Higher

GA WELLS 000006110

County code:	149	Well num:	05BB31
Remarks:	Not Reported	Lat:	332454
Lon:	0850228	Latlon datum:	NAD27
Alt:	790	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	Not Reported
Casing dia:	Not Reported	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	Not Reported	Prim use:	U
Aquifer code:	Not Reported	Edr id:	000006110

A3
SSE
1/2 - 1 Mile
Higher

GA WELLS 000006108

County code:	149	Well num:	05BB30
Remarks:	GA POWER SOIL LAB WELL	Lat:	332450
Lon:	0850229	Latlon datum:	NAD27
Alt:	770	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	6
Casing dia:	Not Reported	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	1900
Discharge:	Not Reported	Prim use:	U
Aquifer code:	320CRSL	Edr id:	000006108

A4
SSE
1/2 - 1 Mile
Higher

FED USGS USGS40000263022

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	05BB30	Type:	Well
Description:	GA POWER SOIL LAB WELL	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers	Aquifer Type:	Not Reported
Formation Type:	Crystalline Rocks	Well Depth:	Not Reported
Construction Date:	1900	Well Hole Depth:	Not Reported
Well Depth Units:	Not Reported		
Well Hole Depth Units:	Not Reported		

**B5
SSW
1/2 - 1 Mile
Higher**

GA WELLS 000006106

County code:	149	Well num:	05BB29
Remarks:	GA PWR ASH POND ACID TANK	Lat:	332432
Lon:	0850256	Latlon datum:	NAD27
Alt:	810	Alt datum:	NGVD29
Depth:	35.45	Depth to casing:	Not Reported
Casing dia:	27.00	Casing matl:	C
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	1900
Discharge:	Not Reported	Prim use:	Z
Aquifer code:	Not Reported	Edr id:	000006106

**B6
SSW
1/2 - 1 Mile
Higher**

FED USGS USGS40000262995

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	05BB29	Type:	Well
Description:	GA PWR ASH POND ACID TANK	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1900
Well Depth:	35.45	Well Depth Units:	ft
Well Hole Depth:	35.45	Well Hole Depth Units:	ft

Ground water levels, Number of Measurements:	1	Level reading date:	1995-11-21
Feet below surface:	9.94	Feet to sea level:	Not Reported
Note:	Not Reported		

**C7
NNE
1 - 2 Miles
Higher**

GA WELLS 000001364

County code:	045	Well num:	05BB28
Remarks:	GA POWER RECREATION WELL	Lat:	332606
Lon:	0850208	Latlon datum:	NAD27
Alt:	780	Alt datum:	NGVD29
Depth:	400	Depth to casing:	45
Casing dia:	16.25	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	19850813
Discharge:	5	Prim use:	R
Aquifer code:	320CRSL	Edr id:	000001364

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

C8
NNE
1 - 2 Miles
Higher

FED USGS USGS40000263163

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	05BB28	Type:	Well
Description:	Not Reported	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation Type:	Crystalline Rocks	Aquifer Type:	Not Reported
Construction Date:	19850813	Well Depth:	400
Well Depth Units:	ft	Well Hole Depth:	400
Well Hole Depth Units:	ft		

D9
SW
1 - 2 Miles
Higher

FED USGS USGS40000262969

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	05BB25	Type:	Well
Description:	WARREN NASH	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation Type:	Crystalline Rocks	Aquifer Type:	Not Reported
Construction Date:	19920501	Well Depth:	380
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1995-10-25
Feet below surface:	21.38	Feet to sea level:	Not Reported
Note:	Not Reported		

D10
SW
1 - 2 Miles
Higher

GA WELLS 000006105

County code:	149	Well num:	05BB25
Remarks:	WARREN NASH	Lat:	332417
Lon:	0850408	Latlon datum:	NAD27
Alt:	860	Alt datum:	NGVD29
Depth:	380	Depth to casing:	26
Casing dia:	6.25	Casing matl:	P
Depth to top:	26	Depth to bot:	380
Opening type:	X	Constr date:	19920501
Discharge:	1	Prim use:	H
Aquifer code:	320CRSL	Edr id:	000006105

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E11
SW
1 - 2 Miles
Higher

GA WELLS 000006104

County code:	149	Well num:	05BB32
Remarks:	Not Reported	Lat:	332402
Lon:	0850354	Latlon datum:	NAD27
Alt:	830	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	24
Casing dia:	Not Reported	Casing matl:	C
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	1900
Discharge:	Not Reported	Prim use:	U
Aquifer code:	Not Reported	Edr id:	000006104

E12
SW
1 - 2 Miles
Higher

FED USGS USGS40000262948

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	05BB32	Type:	Well
Description:	Not Reported	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1900
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for HEARD County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 30217

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.100 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Georgia GIS Clearinghouse

Telephone: 706-542-1581

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

A listing of Private Water Well locations

Georgia Department of Public Health

Telephone: (404) 657-2700

A listing of Private Water Well locations

Georgia Public Supply Wells

Source: Georgia Department of Community Affairs

Telephone: 404-894-0127

USGS Georgia Water Wells

Source: USGS, Georgia District Office

Telephone: 770-903-9100

DNR Managed Lands

Source: Department of Natural Resources

Telephone: 706-557-3032

This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

RADON

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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APPENDIX B

Analytical Laboratory Reports



SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2H0
Phone: 705-652-2000 FAX: 705-652-6365

Project : PO#SIREMLABUS.02.01.8151

28-September-2023

SiREM Laboratory
Attn : Jacques Smith

180B Market Place Blvd
Knoxville, Tennessee
37922, USA

Phone: 865-291-4695
Fax:

Date Rec. : 21 September 2023
LR Report: CA19180-SEP23
Reference: Plant Wansley -
PO#SIREMLABUS.02.01.8
151

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:		6:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	WGWC-20 (33-38) WGWC-26D (55-65)		
Sample Date & Time					06-Sep-23 10:00	06-Sep-23 10:00	
SiO2 [%]	26-Sep-23	19:33	27-Sep-23	13:52		76.5	76.2
Al2O3 [%]	26-Sep-23	19:33	27-Sep-23	13:52		12.4	12.9
Fe2O3 [%]	26-Sep-23	19:33	27-Sep-23	13:52		2.18	1.39
MgO [%]	26-Sep-23	19:33	27-Sep-23	13:52		0.09	0.10
CaO [%]	26-Sep-23	19:33	27-Sep-23	13:52		0.45	0.50
Na2O [%]	26-Sep-23	19:33	27-Sep-23	13:52		3.43	3.48
K2O [%]	26-Sep-23	19:33	27-Sep-23	13:52		4.26	4.79
TiO2 [%]	26-Sep-23	19:33	27-Sep-23	13:52		0.11	0.12
P2O5 [%]	26-Sep-23	19:33	27-Sep-23	13:52		0.02	0.02
MnO [%]	26-Sep-23	19:33	27-Sep-23	13:52		0.12	0.02
Cr2O3 [%]	26-Sep-23	19:33	27-Sep-23	13:52		< 0.01	< 0.01
V2O5 [%]	26-Sep-23	19:33	27-Sep-23	13:52		< 0.01	< 0.01
LOI [%]	26-Sep-23	19:33	27-Sep-23	13:52		1.10	0.88
Sum [%]	26-Sep-23	19:33	27-Sep-23	13:52		100.6	100.4

Analysis	7:	8:	9:	10:
	WGWC-28D (80-90)	WGWC-28D (91-99)	WGWC-28D (160-170)	WGWC-28D (196-206)
Sample Date & Time	06-Sep-23 10:00	06-Sep-23 10:00	06-Sep-23 10:00	06-Sep-23 10:00
SiO2 [%]	74.1	73.5	75.9	72.4
Al2O3 [%]	12.9	13.1	12.4	13.2
Fe2O3 [%]	2.67	2.71	2.28	3.52
MgO [%]	0.28	0.31	0.21	0.95
CaO [%]	0.89	1.06	0.80	1.20

Analysis	7: WGWC-28D (80-90)	8: WGWC-28D (91-99)	9: WGWC-28D (160-170)	10: WGWC-28D (196-206)
Na ₂ O [%]	3.45	3.48	3.25	2.93
K ₂ O [%]	4.54	4.57	4.58	4.02
TiO ₂ [%]	0.24	0.29	0.18	0.41
P ₂ O ₅ [%]	0.06	0.08	0.03	0.09
MnO [%]	0.06	0.07	0.04	0.08
Cr ₂ O ₃ [%]	< 0.01	< 0.01	< 0.01	< 0.01
V ₂ O ₅ [%]	< 0.01	< 0.01	< 0.01	< 0.01
LOI [%]	0.79	1.04	0.62	1.36
Sum [%]	100.0	100.3	100.3	100.1

Catharine Arnold
 Catharine Arnold, B.Sc., C.Chem
 Project Specialist,
 Environment, Health & Safety





Quantitative X-Ray Diffraction by Rietveld Refinement

Report Prepared for: Environmental Services

Project Number/ LIMS No. Custom XRD/MI4542-SEP23

Sample Receipt: September 25, 2023

Sample Analysis: October 5, 2023

Reporting Date: November 14, 2023

Instrument: BRUKER AXS D8 Advance Diffractometer

Test Conditions: Co radiation, 35 kV, 40 mA; Detector: LYNXEYE
Regular Scanning: Step: 0.02°, Step time: 0.75s, 2θ range: 6-80°

Interpretations : PDF2/PDF4 powder diffraction databases issued by the International Center for Diffraction Data (ICDD). DiffracPlus Eva and Topas software.

Detection Limit : 0.5-2%. Strongly dependent on crystallinity.

Contents:

- 1) Method Summary
- 2) Quantitative XRD Results
- 3) XRD Pattern(s)

Kim Gibbs, H.B.Sc., P.Geol.
Senior Mineralogist

Huyun Zhou, Ph.D., P.Geol.
Senior Mineralogist

ACCREDITATION: SGS Natural Resources Lakefield is accredited to the requirements of ISO/IEC 17025 for specific tests as listed on our scope of accreditation, including geochemical, mineralogical and trade mineral tests. To view a list of the accredited methods, please visit the following website and search SGS Canada Inc. - Minerals: <https://www.scc.ca/en/search/palcan>.



Method Summary

The Rietveld Method of Mineral Identification by XRD (ME-LR-MIN-MET-MN-D05) method used by SGS Natural Resources is accredited to the requirements of ISO/IEC 17025.

Mineral Identification and Interpretation:

Mineral identification and interpretation involves matching the diffraction pattern of an unknown material to patterns of single-phase reference materials. The reference patterns are compiled by the Joint Committee on Powder Diffraction Standards - International Center for Diffraction Data (JCPDS-ICDD) database and released on software as Powder Diffraction Files (PDF).

Interpretations do not reflect the presence of non-crystalline and/or amorphous compounds, except when internal standards have been added by request. Mineral proportions may be strongly influenced by crystallinity, crystal structure and preferred orientations. Mineral or compound identification and quantitative analysis results should be accompanied by supporting chemical assay data or other additional tests.

Quantitative Rietveld Analysis:

Quantitative Rietveld Analysis is performed by using Topas 4.2 (Bruker AXS), a graphics based profile analysis program built around a non-linear least squares fitting system, to determine the amount of different phases present in a multicomponent sample. Whole pattern analyses are predicated by the fact that the X-ray diffraction pattern is a total sum of both instrumental and specimen factors. Unlike other peak intensity-based methods, the Rietveld method uses a least squares approach to refine a theoretical line profile until it matches the obtained experimental patterns.

Rietveld refinement is completed with a set of minerals specifically identified for the sample. Zero values indicate that the mineral was included in the refinement calculations, but the calculated concentration was less than 0.05wt%. Minerals not identified by the analyst are not included in refinement calculations for specific samples and are indicated with a dash.

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WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.



Summary of Rietveld Quantitative Analysis X-Ray Diffraction Results

Mineral/Compound	WGWC-26D (55-65)	WGWC-28D (80-90)	WGWC-28D (91-99)	WGWC-28D (160-170)	WGWC-28D (196-206)
	SEP4542-1 (wt %)	SEP4542-2 (wt %)	SEP4542-3 (wt %)	SEP4542-4 (wt %)	SEP4542-5 (wt %)
Quartz	37.9	38.6	37.6	39.2	38.6
Albite	27.6	28.6	30.3	28.5	27.3
Microcline	31.6	28.0	27.8	27.7	20.7
Muscovite	2.0	1.9	2.1	1.7	4.6
Pyrite	0.1	0.3	0.2	0.1	0.1
Kaolinite	0.5	0.2	0.1	0.2	0.3
Rutile	0.4	0.4	0.3	0.4	0.9
Chlorite	-	1.4	1.1	1.3	3.1
Diopside	-	0.6	0.6	0.9	0.4
Magnetite	-	-	-	-	0.7
Phlogopite	-	-	-	-	3.4
TOTAL	100	100	100	100	100

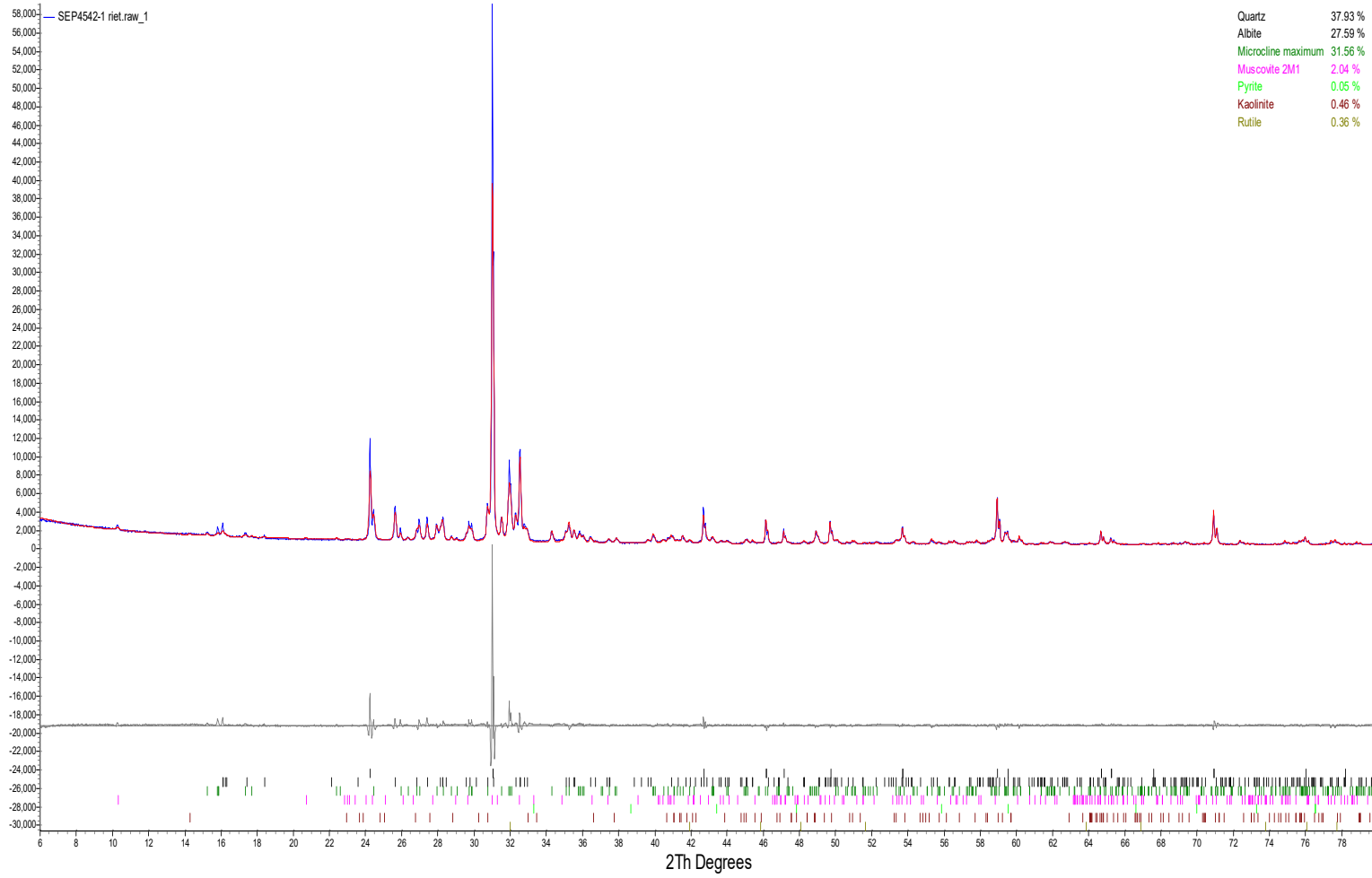
Zero values indicate that the mineral was included in the refinement, but the calculated concentration is below a measurable value.

Dashes indicate that the mineral was not identified by the analyst and not included in the refinement calculation for the sample.

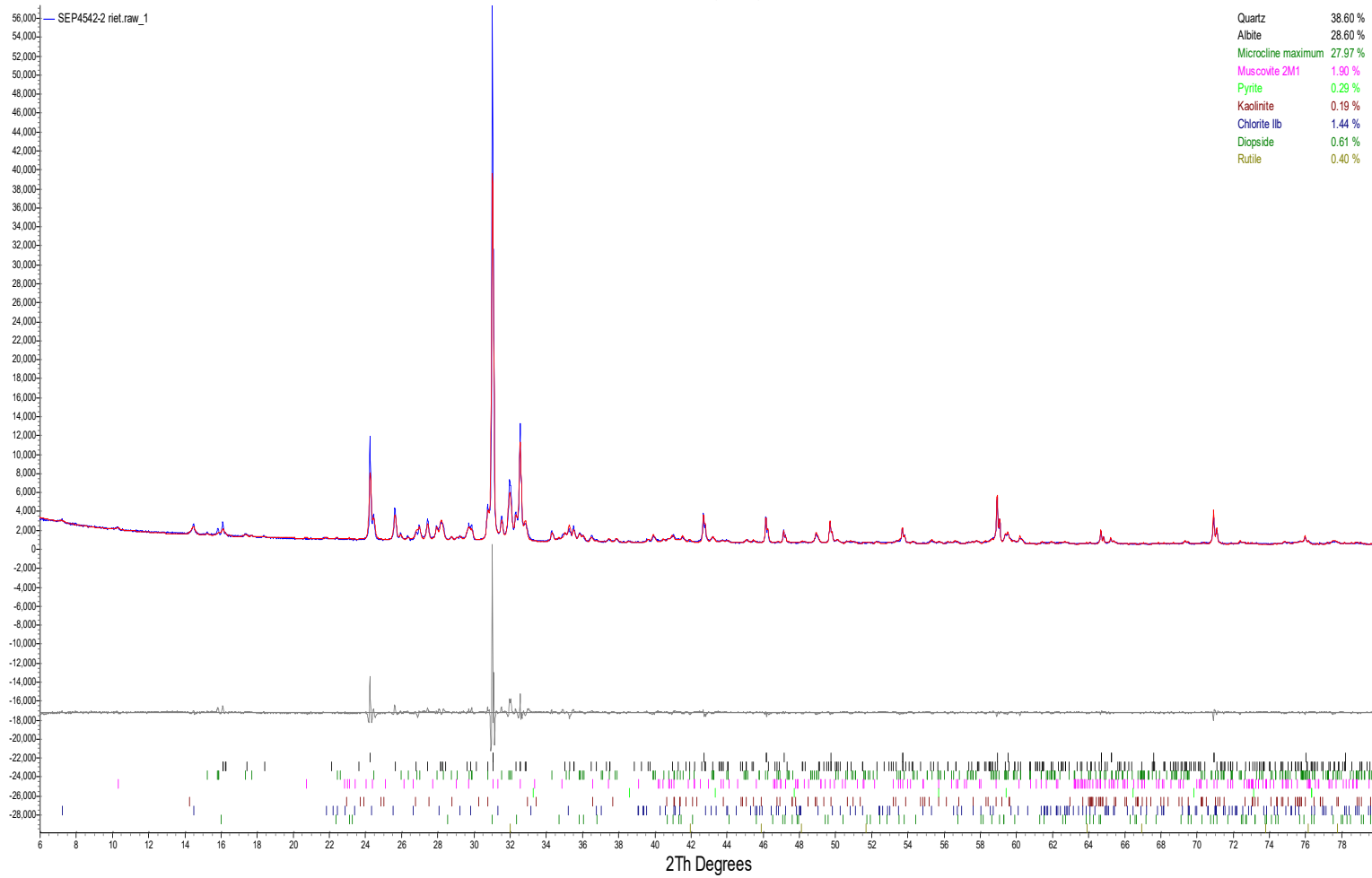
The weight percent quantities indicated have been normalized to a sum of 100%. The quantity of amorphous material has not been determined.

Mineral/Compound	Formula
Quartz	SiO ₂
Albite	NaAlSi ₃ O ₈
Microcline	KAlSi ₃ O ₈
Muscovite	KAl ₂ (AlSi ₃ O ₁₀)(OH) ₂
Pyrite	FeS ₂
Kaolinite	Al ₂ Si ₂ O ₅ (OH) ₄
Rutile	TiO ₂
Chlorite	(Fe, ₁ Mg, ₁ Mn) ₅ Al(Si ₃ Al)O ₁₀ (OH) ₈
Diopside	CaMgSi ₂ O ₆
Magnetite	Fe ₃ O ₄
Phlogopite	KMg ₃ (AlSi ₃ O ₁₀)(OH) ₂

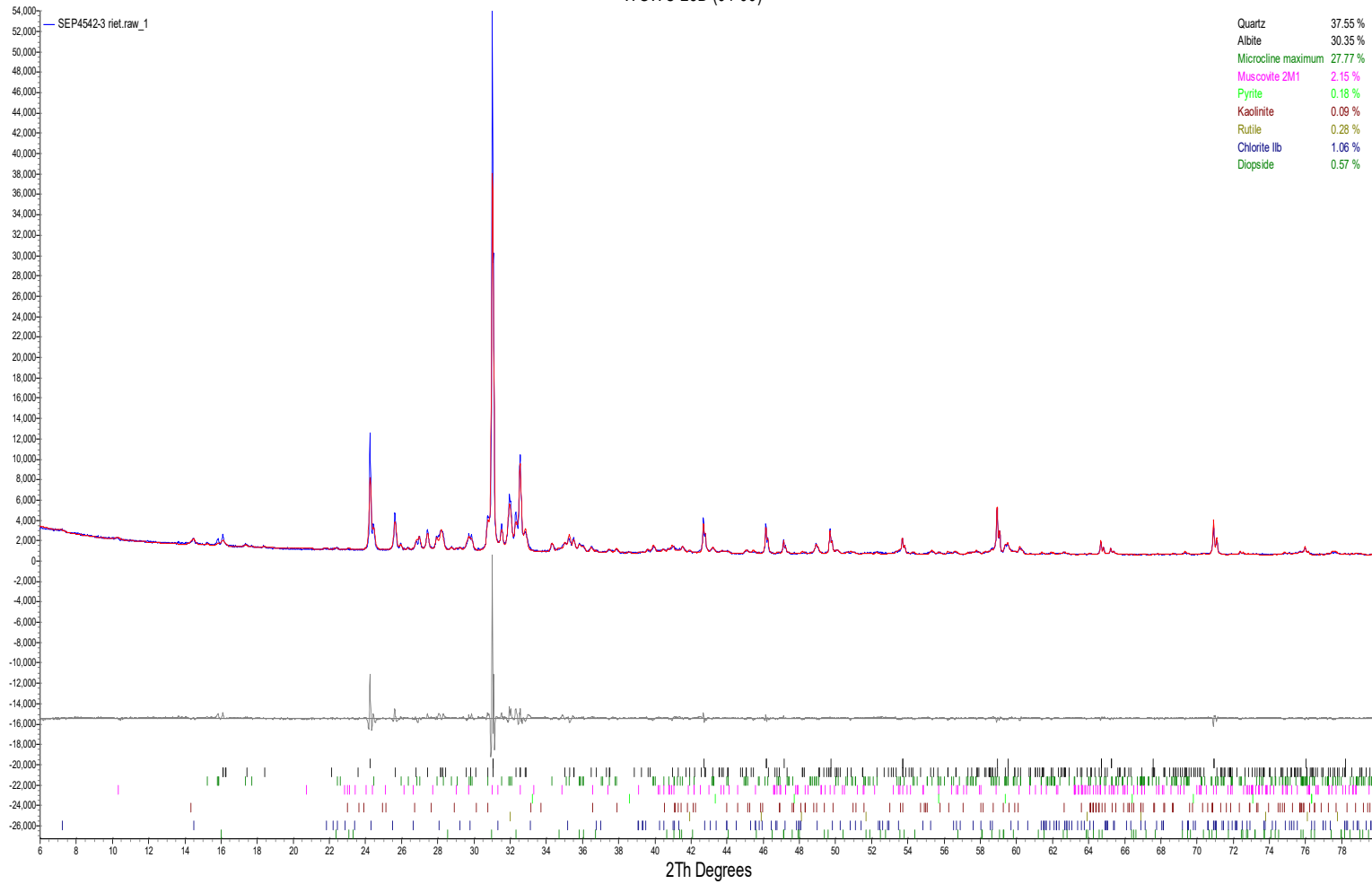
WGWC-26D (55-65)



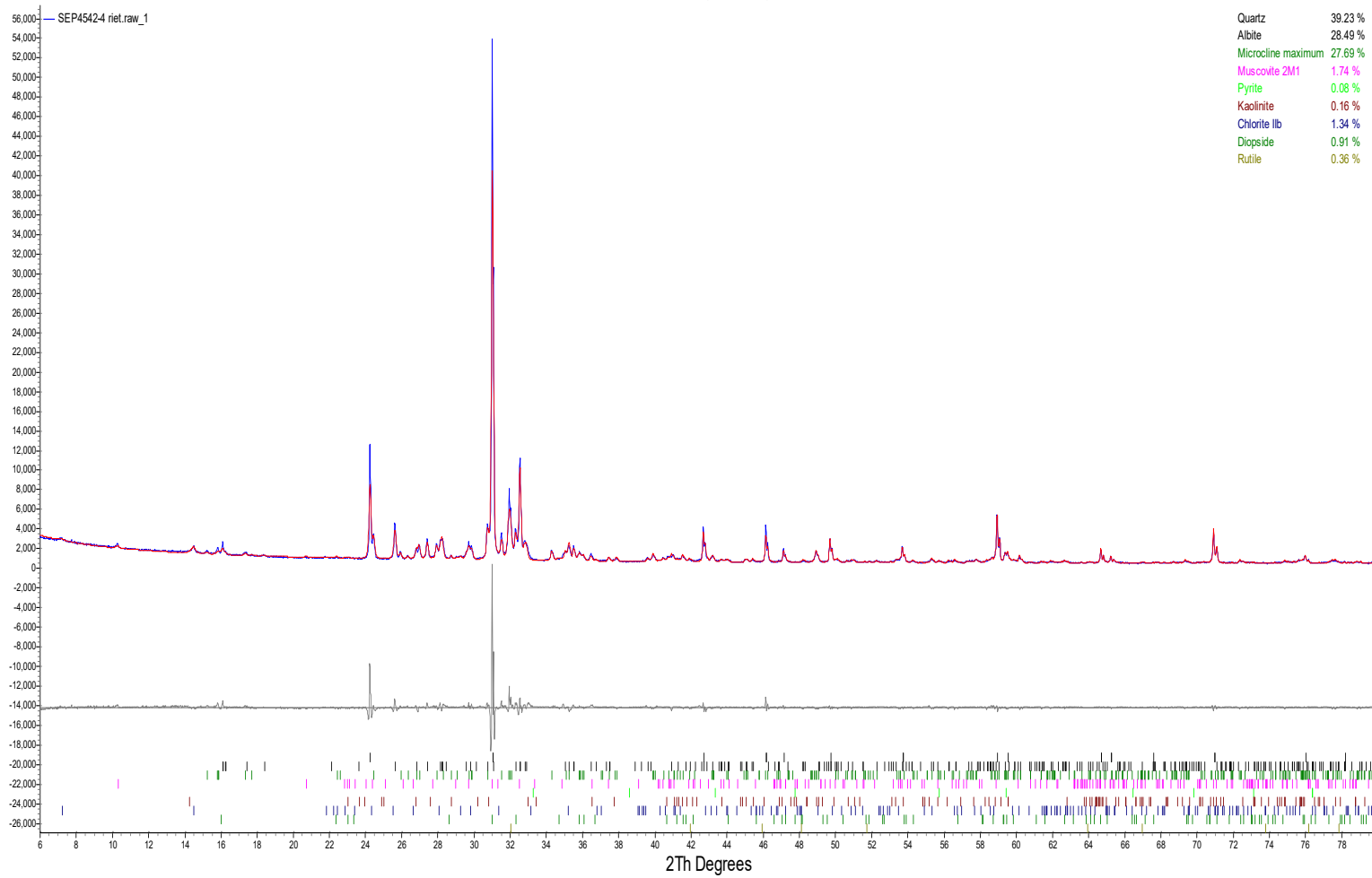
WGWC-28D (80-90)



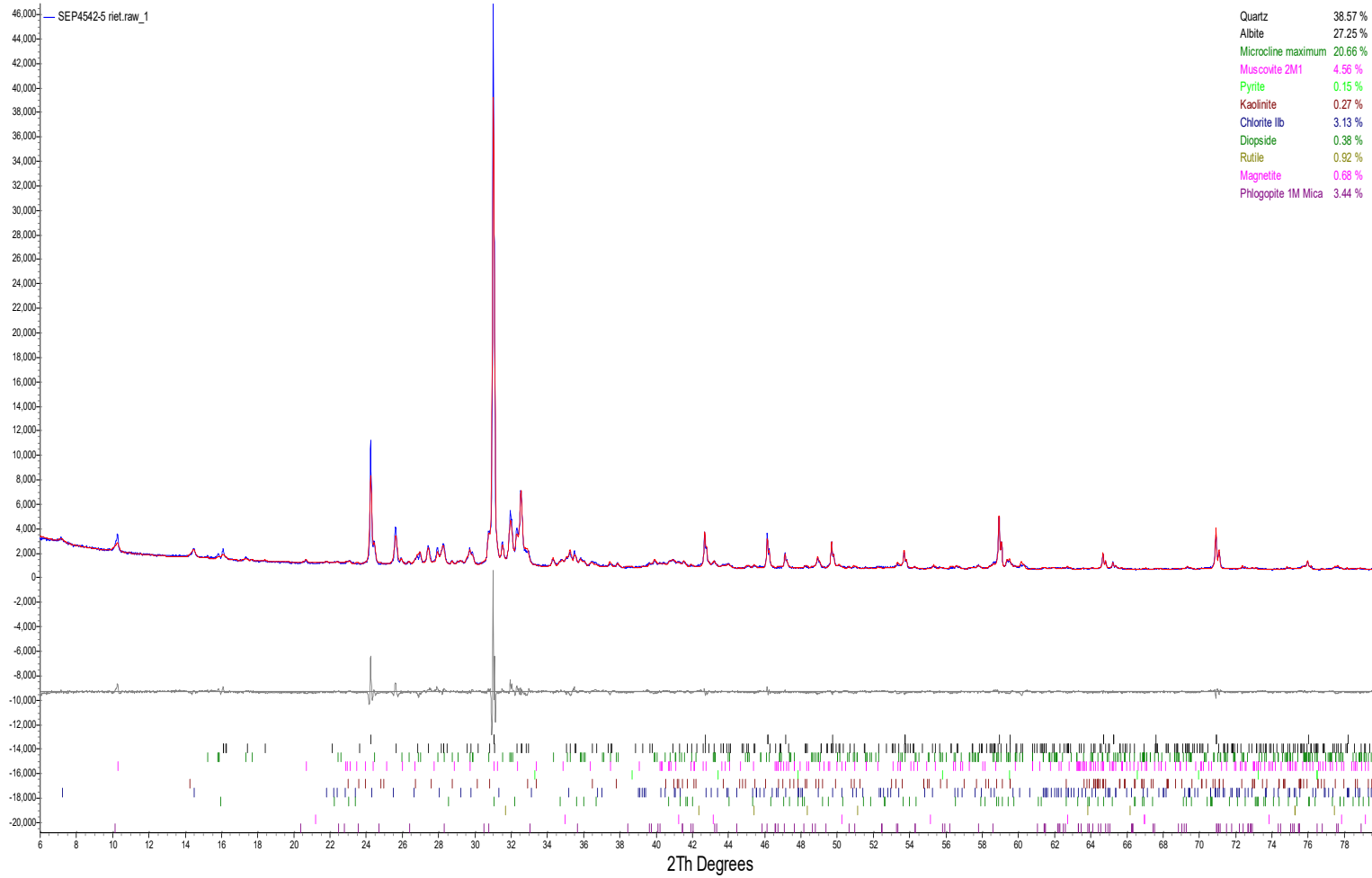
WGWC-28D (91-99)



WGWC-28D (160-170)



WGWC-28D (196-206)



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Project : PO#SIREMLABUS.02.01.8151

23-October-2023

SiREM Laboratory
 Attn : Jacques Smith

Date Rec. : 20 September 2023
LR Report: CA19176-SEP23
Reference: Plant Wansley -
 PO#SIREMLABUS.02.01.8
 151

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 37922, USA

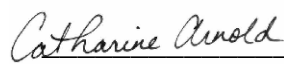
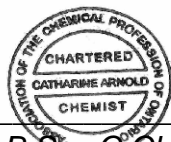
Copy: #1

Phone: 865-291-4695
 Fax:

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	S %	C %
1: Analysis Start Date		23-Oct-23	23-Oct-23
2: Analysis Start Time		10:49	10:49
3: Analysis Completed Date		23-Oct-23	23-Oct-23
4: Analysis Completed Time		11:45	11:45
5: WGWC-20 (33-38)	06-Sep-23 10:00	< 0.005	0.020
6: WGWC-26D (55-65)	06-Sep-23 10:00	0.011	0.016
7: WGWC-28D (80-90)	06-Sep-23 10:00	0.091	0.024
8: WGWC-28D (91-99)	06-Sep-23 10:00	0.072	0.056
9: WGWC-28D (160-170)	06-Sep-23 10:00	< 0.005	0.045
10: WGWC-28D (196-206)	06-Sep-23 10:00	0.042	0.015



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ABA - Modified Sobek

Project : PO#SIREMLABUS.02.01.8151

LR Report : CA19176-SEP23

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Carbon/Sulphur - QCBatchID: ECS0092-OCT23</i>													
Carbon (total)	0.005	%	<0.005			1	20				95	70	130
Sulphur (total)	0.005	%	<0.005			1	20				103	70	130



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Fax:

Trace Metals - Strong Acid Digest, ICP-MS

Project : PO#SIREMLABUS.02.01.8151

07-November-2023

Date Rec. : 20 September 2023

LR Report: CA19177-SEP23

Reference: Plant Wansley -
PO#SIREMLABUS.02.01.8151

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	6: WGWC-26D (55-65)	7: WGWC-28D (80-90)	8: WGWC-28D (91-99)	9: WGWC-28D (160-170)	10: WGWC-28D (196-206)
Sample Date & Time					06-Sep-23 10:00	06-Sep-23 10:00	06-Sep-23 10:00	06-Sep-23 10:00	06-Sep-23 10:00
Ag [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	55000	62000	62000	59000	62000
As [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	0.7	0.9	1.1	0.9	1.1
Ba [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	93	290	410	130	280
Be [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	6.2	6.4	6.3	6.6	5.0
Bi [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	1.6	0.16	0.31	< 0.09	0.17
Ca [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	2800	5500	6300	5100	7200
Cd [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	< 0.02	0.07	0.09	0.03	0.09
Co [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	0.49	1.4	12	1.1	5.0
Cr [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	3.0	3.4	11	3.5	23
Cu [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	3.6	4.7	5.1	2.7	18
Fe [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	7300	15000	17000	11000	22000
K [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	34000	34000	34000	33000	32000
Li [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	22	36	37	39	65
Mg [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	320	1500	1700	1100	5100
Mn [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	140	430	540	320	490
Mo [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	2.0	2.4	4.7	0.5	0.4
Ni [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	0.4	0.7	1.9	1.0	9.9
Pb [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	29	21	24	24	43

OnLine LIMS

0003525154



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Trace Metals - Strong Acid Digest, ICP-MS

Project : PO#SIREMLABUS.02.01.8151

LR Report : CA19177-SEP23

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	6: WGWC-26D (55-65)	7: WGWC-28D (80-90)	8: WGWC-28D (91-99)	9: WGWC-28D (160-170)	10: WGWC-28D (196-206)
Sb [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	0.2	0.4	0.4	0.4	0.3
Sn [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	< 6	7.1	< 6	< 6	< 6
Sr [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	71	68	73	38	67
Ti [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	610	1400	1600	980	2100
Tl [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	1.4	1.2	1.1	1.0	1.1
U [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	10	8	9	11	5
V [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	2.8	7.9	12	7.0	30
Y [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	25	46	50	56	23
Zn [µg/g]	03-Nov-23	20:06	07-Nov-23	12:37	11	37	43	18	59

Method Descriptions

Units	Description	SGS Method Code
µg/g	Al by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-013
µg/g	Sb by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	As by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Ba by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Be by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Bi by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Cd by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Calcium by ICP-MS low-mineralized strong acid	ME-CA-[ENV]SPE-LAK-AN-013
µg/g	Cr by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Co by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Cu by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Fe by ICP-MS pulp	ME-CA-[ENV]SPE-LAK-AN-013
µg/g	Pb by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Li by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Mg by ICP-MS pulp	ME-CA-[ENV]SPE-LAK-AN-013
µg/g	Mn by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Mo by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Ni by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Potassium by ICP-MS low-mineralized strong aci	ME-CA-[ENV]SPE-LAK-AN-001
µg/g	Se by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Ag by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Sr by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Tl by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Sn by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Ti by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	U by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007



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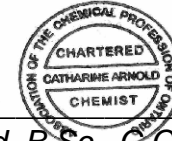
Trace Metals - Strong Acid Digest, ICP-MS

Project : PO#SIREMLABUS.02.01.8151

LR Report : CA19177-SEP23

Units	Description	SGS Method Code
µg/g	V by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Y by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007
µg/g	Zn by ICP-MS Pulp	ME-CA-[ENV]SPE-LAK-AN-007

Catharine Arnold



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Trace Metals - Strong Acid Digest, ICP-MS

Project : PO#SIREMLABUS.02.01.8151

LR Report : CA19177-SEP23

Quality Control Report

Parameter	Reporting Limit	Unit	Method Blank	Inorganic Analysis										
				Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
									Low	High		Low	High	
<i>*QCR_SubCategory* - QCBatchID: EMS0021-NOV23</i>														
Calcium	3	µg/g	<3			5		100				77		
Potassium	3	µg/g	<3			7		101				91		
<i>Metals - Microwave/ICP-MS - QCBatchID: EMS0021-NOV23</i>														
Aluminum	3	µg/g	<3			7	20	102	70	130	81	70	130	
Antimony	0.8	µg/g	<0.8			ND	20	98	70	130	114	70	130	
Arsenic	0.5	µg/g	<0.5			16	20	102	70	130	95	70	130	
Barium	0.01	µg/g	<0.01			1	20	92	70	130	93	70	130	
Beryllium	0.02	µg/g	<0.02			4	20	106	70	130	81	70	130	
Bismuth	0.09	µg/g	<0.09			2	20	92	70	130	NV	70	130	
Cadmium	0.02	µg/g	<0.02			18	20	101	70	130	NV	70	130	
Chromium	0.5	µg/g	<0.5			1	20	102	70	130	79	70	130	
Cobalt	0.01	µg/g	<0.01			1	20	103	70	130	88	70	130	
Copper	0.1	µg/g	<0.1			3	20	106	70	130	95	70	130	
Iron	3	µg/g	<3			0	20	102	70	130	92	70	130	
Lead	0.05	µg/g	<0.05			0	20	109	70	130	108	70	130	
Lithium	2	µg/g	<2			6	20	107	70	130	88	70	130	
Magnesium	3	µg/g	<3			0	20	105	70	130	92	70	130	
Manganese	0.1	µg/g	<0.1			0	20	100	70	130	91	70	130	
Molybdenum	0.1	µg/g	<0.1			16	20	105	70	130	90	70	130	
Nickel	0.1	µg/g	<0.1			2	20	103	70	130	102	70	130	
Selenium	0.1	µg/g	<0.1			8	20	100	70	130	NV	70	130	
Silver	0.5	µg/g	<0.01			8	20	109	70	130	NV	70	130	
Strontium	0.02	µg/g	<0.02			5	20	101	70	130	86	70	130	
Thallium	0.02	µg/g	<0.02			0	20	91	70	130	NV	70	130	
Tin	6	µg/g	<6			ND	20	102	70	130	NV	70	130	
Titanium	0.1	µg/g	<0.1			2	20	98	70	130	72	70	130	
Uranium	0.002	µg/g	<0.002			0	20	99	70	130	80	70	130	
Vanadium	1	µg/g	<1			2	20	102	70	130	92	70	130	
Yttrium	0.004	µg/g	<0.004			6	20	100	70	130	NV	70	130	
Zinc	0.7	µg/g	<0.7			1	20	105	70	130	89	70	130	

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22-November-2022

SiREM Laboratory

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Phone: 865-291-4695
 Fax:

Date Rec. : 12 October 2022
LR Report: CA19113-OCT22
Reference: Plant Wansley
 SIREMLABUS.02. 10. 8151

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	S %	Sulphide %
1: Analysis Start Date	24-Oct-22	25-Oct-22
2: Analysis Start Time	20:01	21:19
3: Analysis Completed Date	25-Oct-22	27-Oct-22
4: Analysis Completed Time	10:56	11:44
5: WGWC-20	< 0.005	< 0.04
6: WGWC-21	0.032	< 0.04
7: WGWC-26D (36-40)	< 0.005	< 0.04
8: WGWC-26D (32-36)	< 0.005	< 0.04

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 Project Specialist,
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 Phone: 705-652-2000 FAX: 705-652-6365

22-November-2022

SiREM Laboratory

Attn : Jacques Smith

180B Market Place Blvd
 Knoxville, Tennessee
 37922, USA

Phone: 865-291-4695
 Fax:

Date Rec. : 12 October 2022
LR Report: CA19112-OCT22
Reference: Plant Wansley
 SIREMLABUS.02. 10. 8151

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CERTIFICATE OF ANALYSIS

Final Report

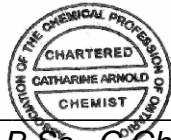
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: WGWC-20	6: WGWC-21	7: WGWC-26D (36-40)	8: WGWC-26D (32-36)
Ag [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	67000	68000	72000	71000
As [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	6.8	2.3	2.3	1.5
Ba [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	120	130	91	140
Be [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	6	5	7	6
Bi [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	2	0.22	3	1
Ca [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	3800	5600	3700	4400
Cd [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	0.05	0.08	0.07	0.04
Co [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	1	1	0.62	0.71
Cr [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	44	50	40	38
Cu [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	3.9	8.4	3.6	2.9
Fe [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	7600	10000	6000	7100
K [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	38000	42000	42000	41000
Li [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	30	30	31	20
Mg [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	900	1100	360	270
Mn [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	390	340	320	350
Mo [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	1.0	22	1.9	3.0
Na [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	26000	24000	27000	29000
Ni [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	4.4	2.9	3.4	2.4
P [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	48	110	47	52
Pb [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	22	23	25	25
Sb [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	< 6	< 6	< 6	< 6
Sr [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	90	46	87	159
Ti [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	830	1100	700	500
Tl [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	1	1	2	1

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LR Report : CA19112-OCT22

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: WGWC-20	6: WGWC-21	7: WGWC-26D (36-40)	8: WGWC-26D (32-36)
U [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	5.20	9.41	11.3	8.95
V [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	5.5	5.2	3.5	2.9
Y [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	25.6	57.6	49.2	40.8
Zn [µg/g]	26-Oct-22	17:22	01-Nov-22	08:24	22	31	18	19

Catharine Arnold

 Catharine Arnold, B.Sc., C.Chem
 Project Specialist,
 Environment, Health & Safety

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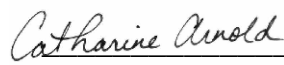

Date Rec. : 12 October 2022
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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: WGWC-20	6: WGWC-21	7: WGWC-26D (36-40)	8: WGWC-26D (32-36)
SiO2 [%]	17-Oct-22	11:54	20-Oct-22	10:37	75.3	75.6	75.8	76.1
Al2O3 [%]	17-Oct-22	11:54	20-Oct-22	10:37	12.9	12.3	12.7	13.1
Fe2O3 [%]	17-Oct-22	11:54	20-Oct-22	10:37	0.83	1.34	0.75	0.94
MgO [%]	17-Oct-22	11:54	20-Oct-22	10:37	0.12	0.19	0.07	0.05
CaO [%]	17-Oct-22	11:54	20-Oct-22	10:37	0.48	0.72	0.50	0.54
Na2O [%]	17-Oct-22	11:54	20-Oct-22	10:37	3.64	3.24	3.58	3.80
K2O [%]	17-Oct-22	11:54	20-Oct-22	10:37	4.56	5.01	4.84	4.84
TiO2 [%]	17-Oct-22	11:54	20-Oct-22	10:37	0.13	0.16	0.10	0.07
P2O5 [%]	17-Oct-22	11:54	20-Oct-22	10:37	0.01	0.03	0.01	0.02
MnO [%]	17-Oct-22	11:54	20-Oct-22	10:37	0.03	0.04	0.04	0.05
Cr2O3 [%]	17-Oct-22	11:54	20-Oct-22	10:37	0.03	0.02	0.02	0.02
V2O5 [%]	17-Oct-22	11:54	20-Oct-22	10:37	< 0.01	< 0.01	< 0.01	< 0.01
LOI [%]	17-Oct-22	11:54	20-Oct-22	10:37	1.02	0.72	0.80	0.67
Sum [%]	17-Oct-22	11:54	20-Oct-22	10:37	99.0	99.5	99.1	100.2



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*Project Specialist,
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QEMSCAN DATA

prepared for:

SiREM

Project Custom Min

MI5054-SEP23

December 7, 2023

Prepared by:



**Margot Aldis/Chris Gunning
Mineralogist/Senior Mineralogist**

High Definition Mineralogical Analysis using QEMSCAN (Quantitative Evaluation of Materials by Scanning Electron Microscopy) (METH# 8.11.1) used by SGS Minerals Services

SGS Canada

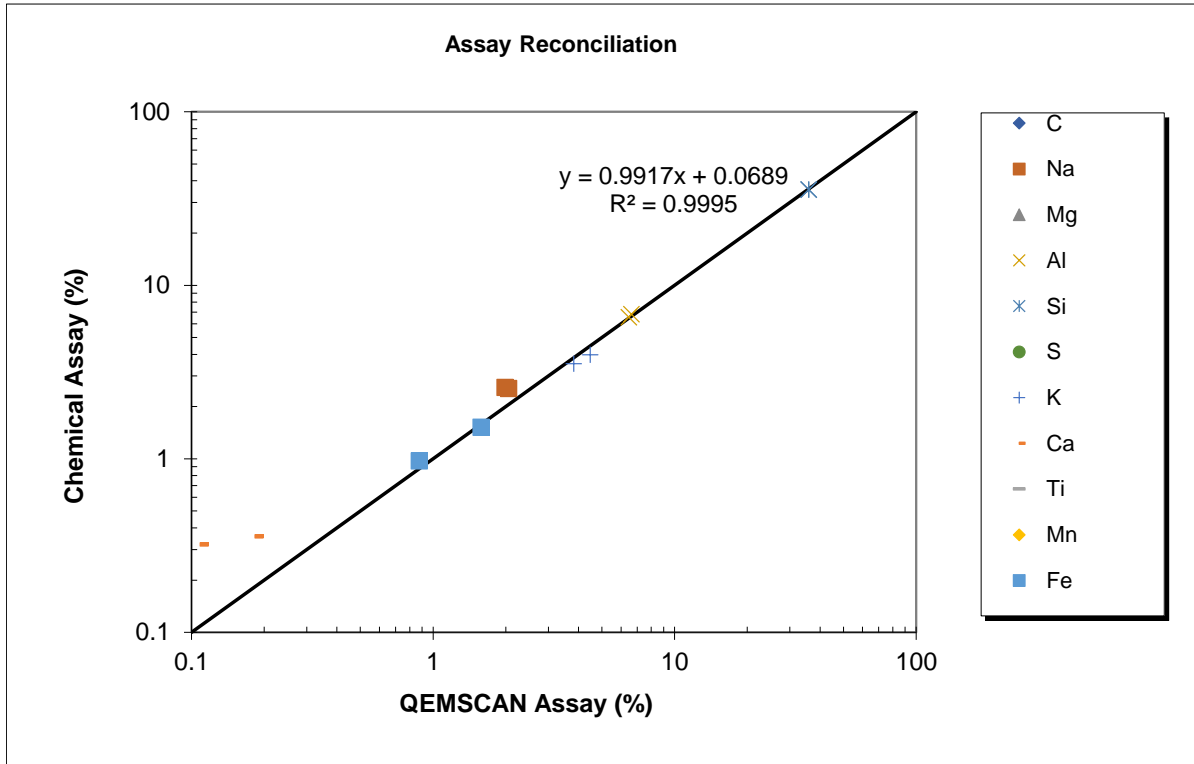
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Member of the SGS Group (SGS SA)

High Definition Mineralogical Analysis using QEMSCAN (Quantitative Evaluation of Materials by Scanning Electron Microscopy)

Assay Reconciliation



Sample	WGWC-20 (33-38)	WGWC-26D (55-65)
Element	-300/+3um	-300/+3um
C (QEMSCAN)	0.01	0.01
C (Chemical)	0.02	0.02
Na (QEMSCAN)	2.06	1.98
Na (Chemical)	2.54	2.58
Mg (QEMSCAN)	0.09	0.05
Mg (Chemical)	0.05	0.06
Al (QEMSCAN)	6.46	6.63
Al (Chemical)	6.56	6.83
Si (QEMSCAN)	35.95	35.89
Si (Chemical)	35.76	35.62
S (QEMSCAN)	0.00	0.06
S (Chemical)	0.01	0.01
K (QEMSCAN)	3.83	4.47
K (Chemical)	3.54	3.98
Ca (QEMSCAN)	0.11	0.18
Ca (Chemical)	0.32	0.36
Ti (QEMSCAN)	0.02	0.03
Ti (Chemical)	0.07	0.07
Mn (QEMSCAN)	0.03	0.01
Mn (Chemical)	0.09	0.02
Fe (QEMSCAN)	1.58	0.88
Fe (Chemical)	1.52	0.97

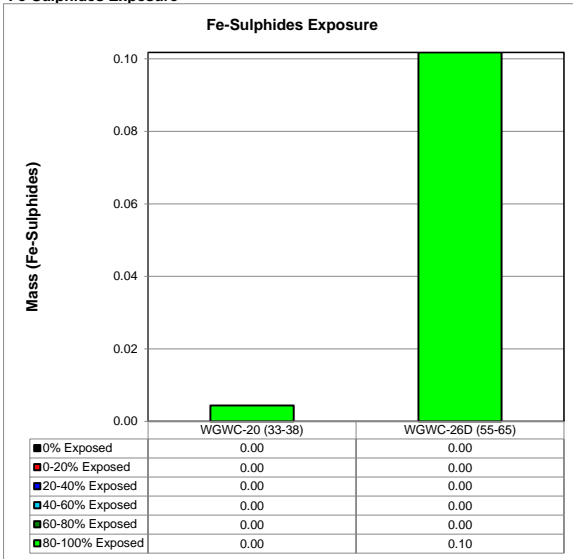
High Definition Mineralogical Analysis using QEMSCAN (Quantitative Evaluation of Materials by Scanning Electron Microscopy)

Modals

Survey		Custom Min / MI5054-SEP23	
Project		SiREM	
Sample		WGWC-20 (33-38)	WGWC-26D (55-65)
Fraction		-300/+3um	-300/+3um
Mass Size Distribution (%)		100.0	100.0
Calculated ESD Particle Size		32	37
		Sample	Sample
Mineral Mass (%)	Chalcopyrite	0.00	0.00
	Chalcocite	0.00	0.00
	Covellite	0.00	0.00
	Bornite	0.00	0.00
	Pyrite/Marcasite	0.00	0.10
	Pyrrhotite	0.00	0.00
	Sphalerite	0.00	0.00
	Galena	0.00	0.00
	Other_Sulphides	0.00	0.00
	Fe-Oxides	1.15	0.52
	Other_Oxides	0.08	0.07
	Quartz	42.65	40.21
	Chlorite/Clays	10.98	8.60
	Talc	0.00	0.00
	Plagioclase	22.99	22.73
	K-Feldspar	21.38	27.04
	Amphibole/Pyroxene	0.02	0.03
	Epidote	0.00	0.01
	Titanite/sphene	0.00	0.00
	Other Silicates	0.64	0.54
Calcite	0.04	0.05	
Carbonates	0.00	0.00	
Apatite	0.01	0.03	
Other	0.05	0.07	
Total		100.00	100.00
Mean Grain Size by Frequency (µm)	Chalcopyrite	9	12
	Chalcocite	0	0
	Covellite	0	12
	Bornite	0	0
	Pyrite/Marcasite	17	35
	Pyrrhotite	0	9
	Sphalerite	0	9
	Galena	0	0
	Other_Sulphides	0	0
	Fe-Oxides	16	15
	Other_Oxides	13	14
	Quartz	26	27
	Chlorite/Clays	11	11
	Talc	10	13
	Plagioclase	22	24
	K-Feldspar	28	32
	Amphibole/Pyroxene	11	11
	Epidote	9	12
	Titanite/sphene	9	20
	Other Silicates	10	10
Calcite	15	13	
Carbonates	13	11	
Apatite	11	20	
Other	15	17	

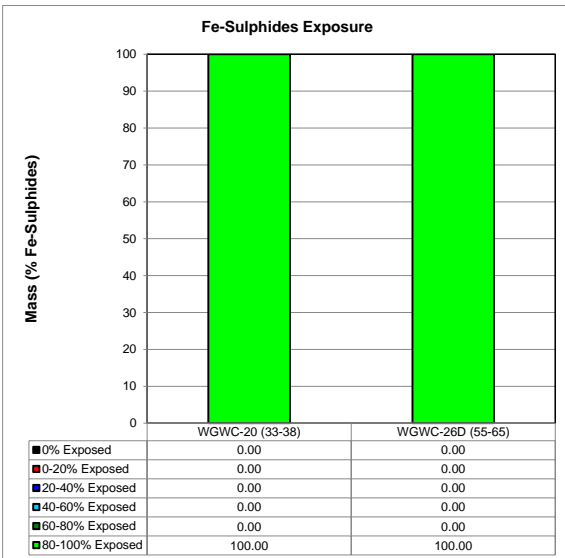
High Definition Mineralogical Analysis using QEMSCAN (Quantitative Evaluation of Materials by Scanning Electron Microscopy)

Fe-Sulphides Exposure



Absolute Mass of Fe-Sulphides Across Samples

Mineral Name	WGWC-20 (33-38)	WGWC-26D (55-65)
80-100% Exposed	0.00	0.10
60-80% Exposed	0.00	0.00
40-60% Exposed	0.00	0.00
20-40% Exposed	0.00	0.00
0-20% Exposed	0.00	0.00
0% Exposed	0.00	0.00
Total	0.00	0.10

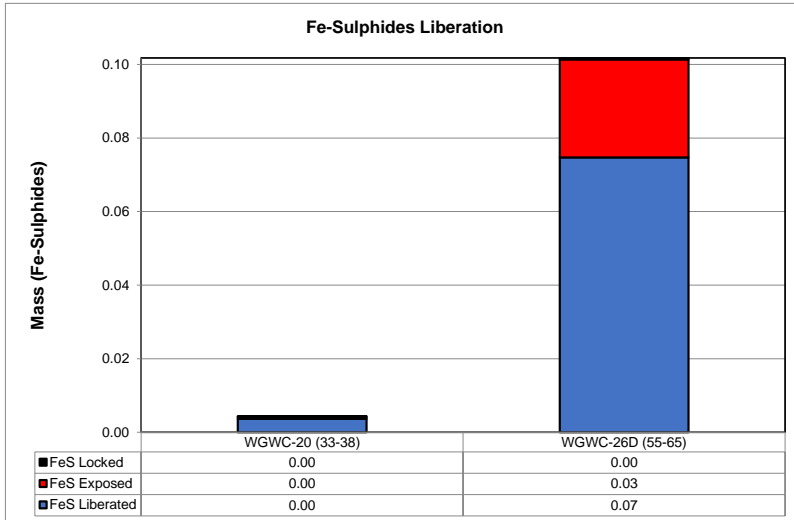


Normalized Mass of Fe-Sulphides Across Samples

Mineral Name	WGWC-20 (33-38)	WGWC-26D (55-65)
80-100% Exposed	100.00	100.00
60-80% Exposed	0.00	0.00
40-60% Exposed	0.00	0.00
20-40% Exposed	0.00	0.00
0-20% Exposed	0.00	0.00
0% Exposed	0.00	0.00
Total	100.00	100.00

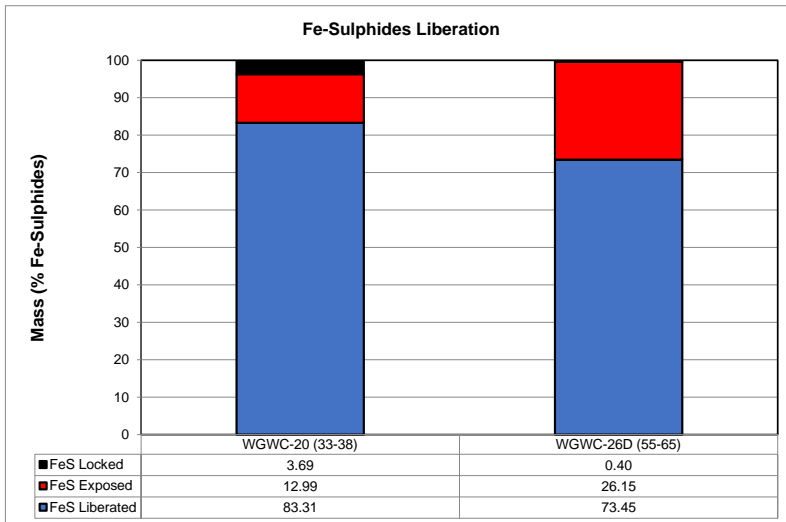
High Definition Mineralogical Analysis using QEMSCAN (Quantitative Evaluation of Materials by Scanning Electron Microscopy)

Fe-Sulphides Liberation



Absolute Mass of Fe-Sulphides Across Samples

Mineral Name	WGWC-20 (33-38)	WGWC-26D (55-65)
FeS Liberated	0.00	0.07
FeS Exposed	0.00	0.03
FeS Locked	0.00	0.00
Total	0.00	0.10



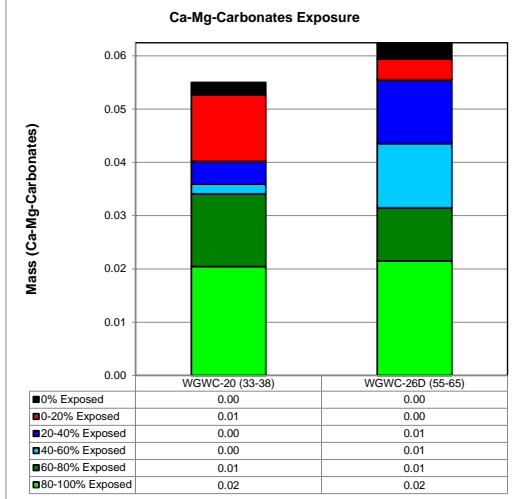
Normalized Mass of Fe-Sulphides Across Samples

Mineral Name	WGWC-20 (33-38)	WGWC-26D (55-65)
FeS Liberated	83.31	73.45
FeS Exposed	12.99	26.15
FeS Locked	3.69	0.40
Total	100.00	100.00



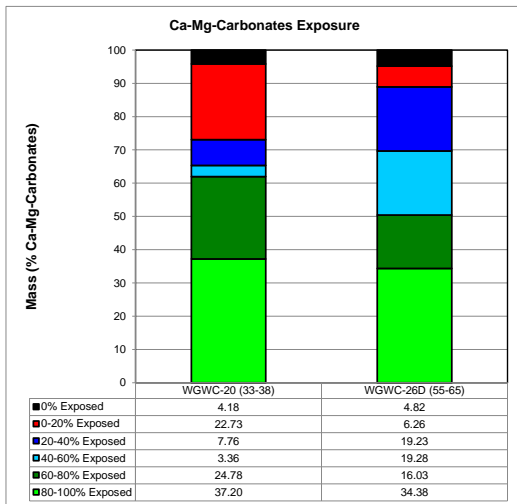
High Definition Mineralogical Analysis using QEMSCAN (Quantitative Evaluation of Materials by Scanning Electron Microscopy)

Ca-Mg-Carbonates Exposure



Absolute Mass of Ca-Mg-Carbonates Across Samples

Mineral Name	WGWC-20 (33-38)	WGWC-26D (55-65)
80-100% Exposed	0.02	0.02
60-80% Exposed	0.01	0.01
40-60% Exposed	0.00	0.01
20-40% Exposed	0.00	0.01
0-20% Exposed	0.01	0.00
0% Exposed	0.00	0.00
Total	0.06	0.06

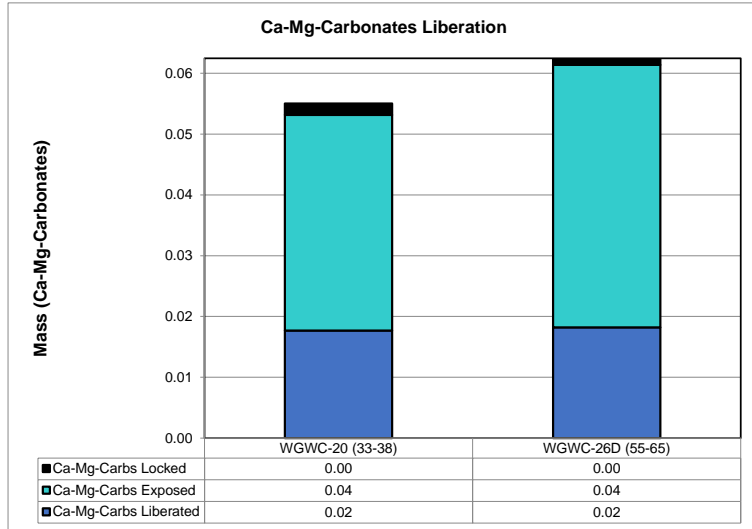


Normalized Mass of Ca-Mg-Carbonates Across Samples

Mineral Name	WGWC-20 (33-38)	WGWC-26D (55-65)
80-100% Exposed	37.20	34.38
60-80% Exposed	24.78	16.03
40-60% Exposed	3.36	19.28
20-40% Exposed	7.76	19.23
0-20% Exposed	22.73	6.26
0% Exposed	4.18	4.82
Total	100.00	100.00

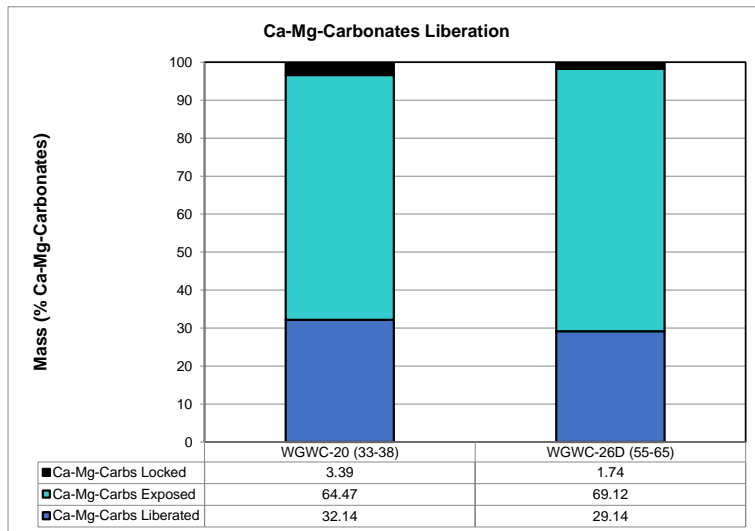
High Definition Mineralogical Analysis using QEMSCAN (Quantitative Evaluation of Materials by Scanning Electron Microscopy)

Ca-Mg-Carbonates Liberation



Absolute Mass of Ca-Mg-Carbonates Across Samples

Mineral Name	WGWC-20 (33-38)	WGWC-26D (55-65)
Ca-Mg-Carbs Liberated	0.02	0.02
Ca-Mg-Carbs Exposed	0.04	0.04
Ca-Mg-Carbs Locked	0.00	0.00
Total	0.06	0.06



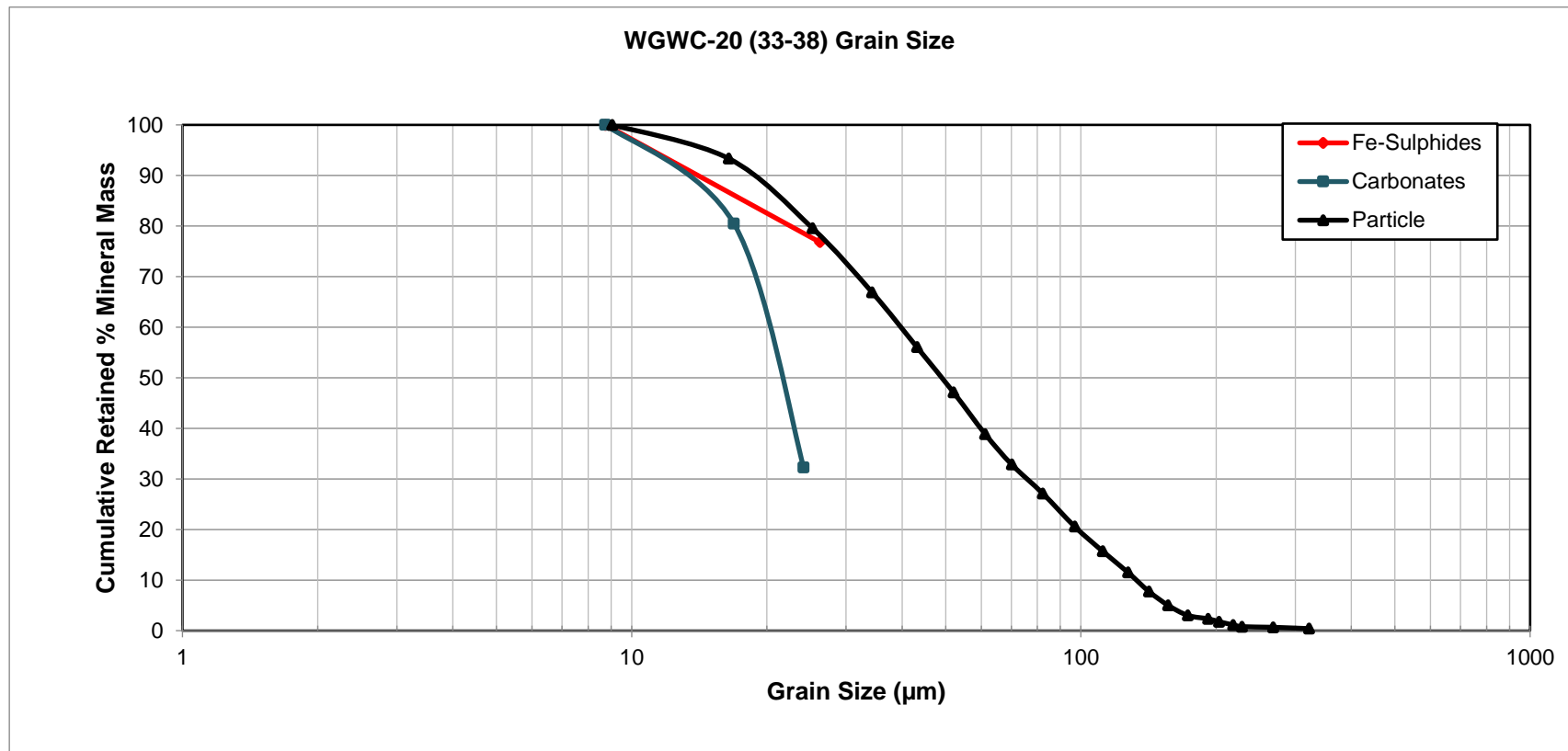
Normalized Mass of Ca-Mg-Carbonates Across Samples

Mineral Name	WGWC-20 (33-38)	WGWC-26D (55-65)
Ca-Mg-Carbs Liberated	32.14	29.14
Ca-Mg-Carbs Exposed	64.47	69.12
Ca-Mg-Carbs Locked	3.39	1.74
Total	100.00	100.00



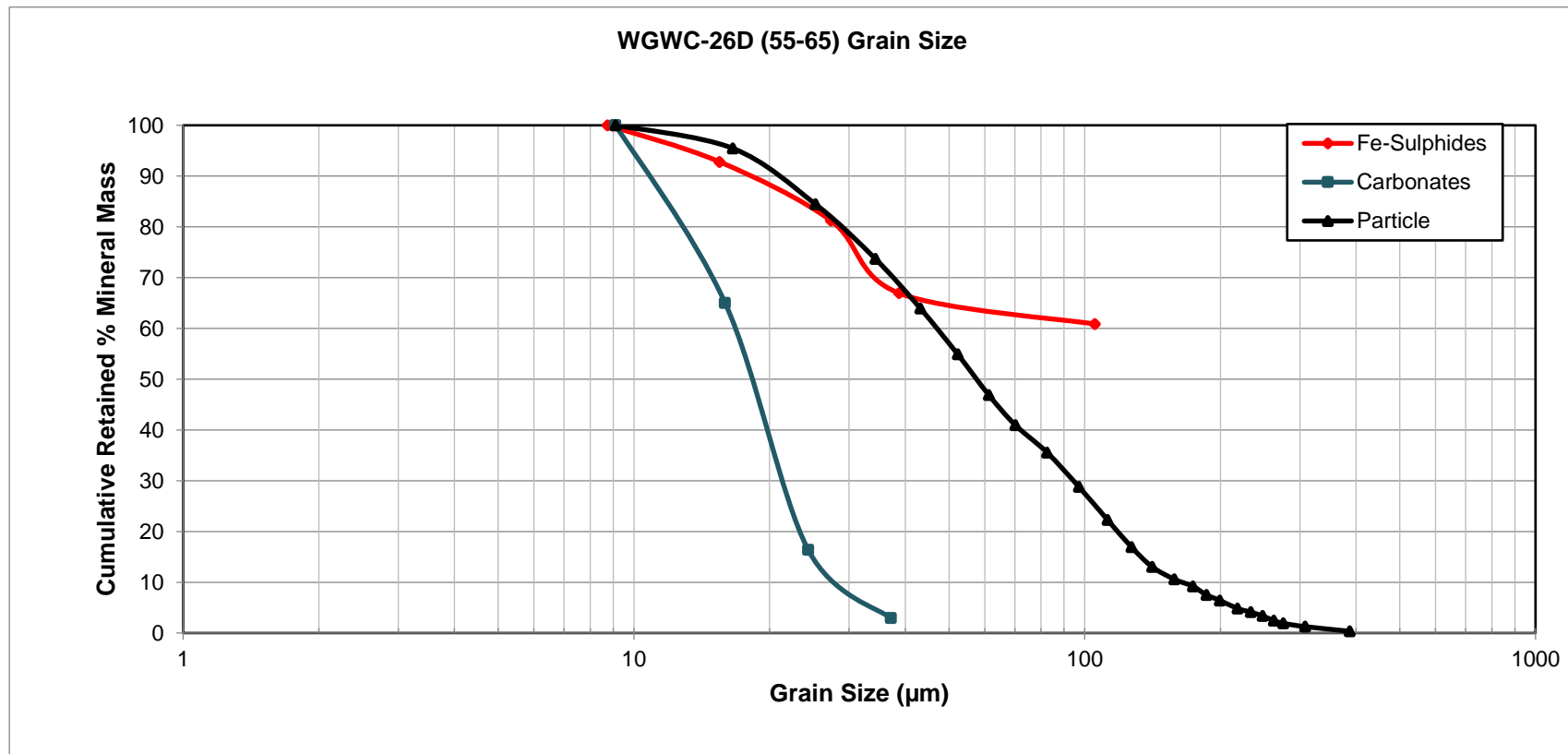
High Definition Mineralogical Analysis using QEMSCAN (Quantitative Evaluation of Materials by Scanning Electron Microscopy)

Cumulative Retained Grain Size Distribution



High Definition Mineralogical Analysis using QEMSCAN (Quantitative Evaluation of Materials by Scanning Electron Microscopy)

Cumulative Retained Grain Size Distribution



SiREM
Custom Min
MI5054-SEP23

*High Definition Mineralogical Analysis using QEMSCAN
(Quantitative Evaluation of Materials by Scanning Electron Microscopy)*

Mineralogical Acid-Base Accounting

Parameter/Sample	WGWC-20 (33-38)	WGWC- 26D (55-65)
NP from Ca-Mg Carbonates (tonnes CaCO ₃ /1000 tonnes)	0.4	0.5
AP from Fe-Sulphides (tonnes CaCO ₃ /1000 tonnes)	0.1	1.7
NP/AP	5.2	0.3
Available NP/AP	5.0	0.3

Notes:

NP = Neutralization Potential

AP = Acid Generation Potential

"Available NP/AP" takes into account the exposure of Ca-Mg-carbonates and Fe-sulphides

A carbonate/sulphide ratio > 2 indicates probable net neutralizing conditions. Only net acid consuming carbonates (Ca-Mg carbonates) are used for the mineralogical neutralization potential (NP) determination. Only Fe-sulphides are used for the mineralogical acid generation potential (AGP) as they are the main sulphides to contribute to net acidity.

In cases of low carbonate and sulphide abundance (typically <0.5 wt.% of each), values are only semi-quantitative due to low particle statistics for study. More replicate analyses are recommended to properly quantify the NP/AGP potential of these samples.

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Project : PO#SIREMLABUS.02.01.8151

14-December-2023

SiREM Laboratory
Attn : Jacques Smith

Date Rec. : 20 September 2023
LR Report: CA19181-SEP23
Reference: Plant Wansley -
PO#SIREMLABUS.02.01.8
151

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CERTIFICATE OF ANALYSIS

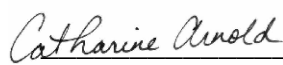
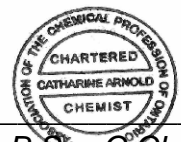
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: WGWC-20 (33-38)	6: WGWC-26D (55-65)
Sample Date & Time					06-Sep-23 10:00	06-Sep-23 10:00
Be [µg/g]	08-Dec-23	20:03	12-Dec-23	11:39	< 0.02	< 0.02
Li [µg/g]	08-Dec-23	20:03	12-Dec-23	11:39	< 2	< 2

Water Soluble Fraction

Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code
Metals in Soil - Aqua-regia/ICP-MS	ug/g	ME-CA-[ENV]SPE-LAK-AN-005	EPA 3050/EPA 200.8



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Tessier Leach Fraction 1 - Water Soluble

Project : PO#SIREMLABUS.02.01.8151

LR Report : CA19181-SEP23

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Metals in Soil - Aqua-regia/ICP-MS - QCBatchID: EMS0252-NOV23</i>													
Beryllium	0.02	ug/g	<0.02			ND	20	101	70	130	NV	70	130
Lithium	2	ug/g	<2			ND	20	105	70	130	NV	70	130

14-December-2023

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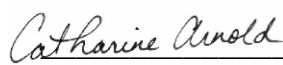
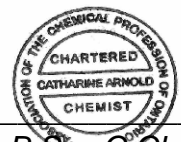
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: WGWC-20 (33-38)	6: WGWC-26D (55-65)
Sample Date & Time					06-Sep-23 10:00	06-Sep-23 10:00
Be [µg/g]	08-Dec-23	20:03	12-Dec-23	11:39	< 0.02	< 0.02
Li [µg/g]	08-Dec-23	20:03	12-Dec-23	11:39	< 2	< 2

Fraction 2 Exchangeable Metals

Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code
Metals in Soil - Aqua-regia/ICP-MS	ug/g	ME-CA-[ENV]SPE-LAK-AN-005	EPA 3050/EPA 200.8



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Tessier Leach Fraction 2 - Exchangeable Metals

Project : PO#SIREMLABUS.02.01.8151

LR Report : CA19182-SEP23

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Metals in Soil - Aqua-regia/ICP-MS - QCBatchID: EMS0252-NOV23</i>													
Beryllium	0.02	ug/g	<0.02			ND	20	101	70	130	NV	70	130
Lithium	2	ug/g	<2			ND	20	105	70	130	NV	70	130

14-December-2023

SiREM Laboratory
Attn : Jacques Smith

180B Market Place Blvd
Knoxville, Tennessee
37922, USA

Phone: 865-291-4695
Fax:

Date Rec. : 20 September 2023
LR Report: CA19183-SEP23
Reference: Plant Wansley -
PO#SIREMLABUS.02.01.8151

Copy: #1

CERTIFICATE OF ANALYSIS

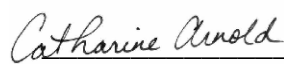
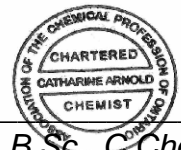
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: WGWC-20 (33-38)	6: WGWC-26D (55-65)
Sample Date & Time					06-Sep-23 10:00	06-Sep-23 10:00
Be [µg/g]	08-Dec-23	20:03	12-Dec-23	11:39	0.19	0.11
Li [µg/g]	08-Dec-23	20:03	12-Dec-23	11:39	< 2	< 2

Fraction 3 Metals Bound to Carbonates

Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code
Metals in Soil - Aqua-regia/ICP-MS	ug/g	ME-CA-[ENV]SPE-LAK-AN-005	EPA 3050/EPA 200.8



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Project Specialist,
Environment, Health & Safety

SGS Canada Inc.

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Phone: 705-652-2000 FAX: 705-652-6365

14-December-2023

SiREM Laboratory

Attn : Jacques Smith

Date Rec. : 20 September 2023

LR Report: CA19184-SEP23

Reference: Plant Wansley - PO#SIREMLABUS.02.01.8151

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Copy: #1

CERTIFICATE OF ANALYSIS

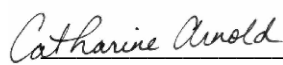
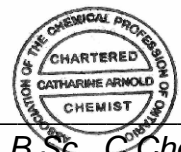
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: WGWC-20 (33-38)	6: WGWC-26D (55-65)
Sample Date & Time			06-Sep-23 10:00	06-Sep-23 10:00
Be [µg/g]	12-Dec-23	11:39	0.52	0.31
Li [µg/g]	12-Dec-23	11:39	< 2	< 2

Fraction 4 Metals Bound to Fe and Mn Oxides

Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code
Metals in Soil - Aqua-regia/ICP-MS	ug/g	ME-CA-[ENV]SPE-LAK-AN-005	EPA 3050/EPA 200.8



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Tessier Leach Fraction 4 - Metals Bound to Fe and Mn

Oxides
Project : PO#SIREMLABUS.02.01.8151

LR Report : CA19184-SEP23

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
<i>Metals in Soil - Aqua-regia/ICP-MS - QCBatchID: EMS0252-NOV23</i>													
Beryllium	0.02	ug/g	<0.02			ND	20	101	70	130	NV	70	130
Lithium	2	ug/g	<2			ND	20	105	70	130	NV	70	130

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Tessier Leach Fraction 5 - Bound to Organic Material
Project : PO#SIREMLABUS.02.01.8151

14-December-2023

SiREM Laboratory
Attn : Jacques Smith

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Knoxville, Tennessee
37922, USA

Phone: 865-291-4695
Fax:

Date Rec. : 20 September 2023
LR Report: CA19185-SEP23
Reference: Plant Wansley -
PO#SIREMLABUS.02.01.8151

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CERTIFICATE OF ANALYSIS

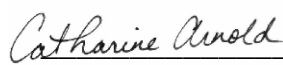
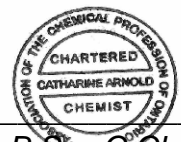
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: WGWC-20 (33-38)	6: WGWC-26D (55-65)
Sample Date & Time			06-Sep-23 10:00	06-Sep-23 10:00
Be [µg/g]	12-Dec-23	11:39	0.10	0.06
Li [µg/g]	12-Dec-23	11:39	< 2	< 2

Fraction 5 Bound to Organic Material

Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code
Metals in Soil - Aqua-regia/ICP-MS	ug/g	ME-CA-[ENV]SPE-LAK-AN-005	EPA 3050/EPA 200.8



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Tessier Leach Fraction 5 - Bound to Organic Material

Project : PO#SIREMLABUS.02.01.8151

LR Report : CA19185-SEP23

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Metals in Soil - Aqua-regia/ICP-MS - QCBatchID: EMS0252-NOV23</i>													
Beryllium	0.02	ug/g	<0.02			ND	20	101	70	130	NV	70	130
Lithium	2	ug/g	<2			ND	20	105	70	130	NV	70	130

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Project : PO#SIREMLABUS.02.01.8151

14-December-2023

SiREM Laboratory
Attn : Jacques Smith

Date Rec. : 20 September 2023
LR Report: CA19186-SEP23
Reference: Plant Wansley -
PO#SIREMLABUS.02.01.8
151

180B Market Place Blvd
Knoxville, Tennessee
37922, USA

Copy: #1

Phone: 865-291-4695
Fax:

CERTIFICATE OF ANALYSIS

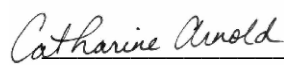
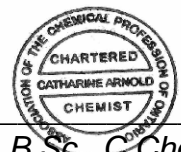
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: WGWC-20 (33-38)	6: WGWC-26D (55-65)
Sample Date & Time			06-Sep-23 10:00	06-Sep-23 10:00
Be [µg/g]	12-Dec-23	11:39	3.0	2.1
Li [µg/g]	12-Dec-23	11:39	15	10

Fraction 6 Residual metals

Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code
Metals in Soil - Aqua-regia/ICP-MS	ug/g	ME-CA-[ENV]SPE-LAK-AN-005	EPA 3050/EPA 200.8



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Tessier Leach Fraction 6 - Residual metals

Project : PO#SIREMLABUS.02.01.8151

LR Report : CA19186-SEP23

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Metals in Soil - Aqua-regia/ICP-MS - QCBatchID: EMS0252-NOV23</i>													
Beryllium	0.02	ug/g	<0.02			ND	20	101	70	130	NV	70	130
Lithium	2	ug/g	<2			ND	20	105	70	130	NV	70	130

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Generated 3/5/2023 10:42:01 AM

JOB DESCRIPTION

Plant Wansley - Ash Pond - IW Wells

JOB NUMBER

680-230804-1

Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-230804-1	WAN-PZ-A2S	Water	02/17/23 11:05	02/18/23 06:30
680-230804-2	WAN-PZ-A2M	Water	02/17/23 11:30	02/18/23 06:30
680-230804-3	WAN-PZ-A2D	Water	02/17/23 10:00	02/18/23 06:30

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Case Narrative

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Job ID: 680-230804-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-230804-1

Receipt

The samples were received on 2/18/2023 6:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

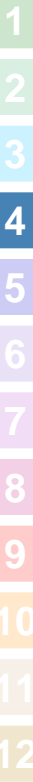
Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method SM4500_S2_F: The following samples were analyzed with headspace in the sample container(s): WAN-PZ-A2D (680-230804-3), (680-230804-C-2 MS) and (680-230804-C-2 MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Client Sample ID: WAN-PZ-A2S

Lab Sample ID: 680-230804-1

Date Collected: 02/17/23 11:05

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.44		0.10	0.040	mg/L			03/02/23 12:13	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220		10	2.0	mg/L			03/02/23 19:15	10
Sulfate	1500		10	4.0	mg/L			03/02/23 19:15	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 18:47	1
Boron	21	B	1.6	0.44	mg/L		02/21/23 09:52	02/24/23 16:21	20
Calcium	680		10	2.8	mg/L		02/21/23 09:52	02/24/23 16:21	20
Iron	0.17		0.050	0.012	mg/L		02/21/23 09:52	02/22/23 18:47	1
Lithium	0.070		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 18:47	1
Magnesium	20		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 18:47	1
Manganese	0.17		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 18:47	1
Potassium	14		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 18:47	1
Sodium	16		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 18:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	82		5.0	5.0	mg/L			02/22/23 16:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	8.6		5.0	5.0	mg/L			02/22/23 16:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	74		5.0	5.0	mg/L			02/22/23 16:27	1
Total Dissolved Solids (SM 2540C-2011)	2600		80	80	mg/L			02/23/23 13:26	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/24/23 09:26	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	9.66				SU			02/17/23 11:05	1

Client Sample ID: WAN-PZ-A2M

Lab Sample ID: 680-230804-2

Date Collected: 02/17/23 11:30

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.072	J	0.10	0.040	mg/L			03/02/23 12:26	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		10	2.0	mg/L			03/02/23 19:28	10
Sulfate	1400		10	4.0	mg/L			03/02/23 19:28	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00022	J	0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 18:31	1
Boron	49	B	8.0	2.2	mg/L		02/21/23 09:52	02/24/23 16:05	100
Calcium	1300		50	14	mg/L		02/21/23 09:52	02/24/23 16:05	100

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Client Sample ID: WAN-PZ-A2M

Lab Sample ID: 680-230804-2

Date Collected: 02/17/23 11:30

Matrix: Water

Date Received: 02/18/23 06:30

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.34		0.050	0.012	mg/L		02/21/23 09:52	02/22/23 18:31	1
Lithium	0.18		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 18:31	1
Magnesium	11		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 18:31	1
Manganese	0.012		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 18:31	1
Potassium	33		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 18:31	1
Sodium	28		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	180		5.0	5.0	mg/L			02/22/23 23:57	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:57	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	99		5.0	5.0	mg/L			02/22/23 23:57	1
Total Dissolved Solids (SM 2540C-2011)	4100		200	200	mg/L			02/23/23 13:26	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/24/23 09:26	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	9.84				SU			02/17/23 11:30	1

Client Sample ID: WAN-PZ-A2D

Lab Sample ID: 680-230804-3

Date Collected: 02/17/23 10:00

Matrix: Water

Date Received: 02/18/23 06:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.20	mg/L			03/02/23 12:39	1
Fluoride	0.62		0.10	0.040	mg/L			03/02/23 12:39	1
Sulfate	120		1.0	0.40	mg/L			03/02/23 12:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 18:43	1
Boron	0.25	B	0.080	0.022	mg/L		02/21/23 09:52	02/24/23 16:17	1
Calcium	93		0.50	0.14	mg/L		02/21/23 09:52	02/22/23 18:43	1
Iron	0.025	J	0.050	0.012	mg/L		02/21/23 09:52	02/22/23 18:43	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 18:43	1
Magnesium	1.4		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 18:43	1
Manganese	0.0087		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 18:43	1
Potassium	6.3		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 18:43	1
Sodium	2.7		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 18:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	96		5.0	5.0	mg/L			02/22/23 23:46	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	96		5.0	5.0	mg/L			02/22/23 23:46	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/22/23 23:46	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Client Sample ID: WAN-PZ-A2D

Lab Sample ID: 680-230804-3

Date Collected: 02/17/23 10:00

Matrix: Water

Date Received: 02/18/23 06:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	290		40	40	mg/L			02/23/23 13:26	1
Sulfide (SM 4500 S2 F-2011)	<0.86		0.86	0.86	mg/L			02/24/23 09:26	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.61				SU			02/17/23 10:00	1

QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-765703/2
Matrix: Water
Analysis Batch: 765703

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			03/02/23 09:48	1
Fluoride	<0.040		0.10	0.040	mg/L			03/02/23 09:48	1
Sulfate	<0.40		1.0	0.40	mg/L			03/02/23 09:48	1

Lab Sample ID: LCS 680-765703/4
Matrix: Water
Analysis Batch: 765703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.3		mg/L		103	90 - 110
Fluoride	2.00	2.02		mg/L		101	90 - 110
Sulfate	10.0	10.2		mg/L		102	90 - 110

Lab Sample ID: LCSD 680-765703/5
Matrix: Water
Analysis Batch: 765703

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.3		mg/L		103	90 - 110	0	15
Fluoride	2.00	2.02		mg/L		101	90 - 110	0	15
Sulfate	10.0	10.2		mg/L		102	90 - 110	1	15

Lab Sample ID: 680-230724-D-1 MS
Matrix: Water
Analysis Batch: 765703

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	13		10.0	23.6		mg/L		102	80 - 120
Fluoride	0.052	J	2.00	2.07		mg/L		101	80 - 120
Sulfate	25		10.0	35.6		mg/L		104	80 - 120

Lab Sample ID: 680-230724-D-1 MSD
Matrix: Water
Analysis Batch: 765703

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13		10.0	23.3		mg/L		99	80 - 120	1	15
Fluoride	0.052	J	2.00	1.99		mg/L		97	80 - 120	4	15
Sulfate	25		10.0	35.3		mg/L		101	80 - 120	1	15

Lab Sample ID: MB 680-765704/33
Matrix: Water
Analysis Batch: 765704

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			03/02/23 16:37	1
Fluoride	<0.040		0.10	0.040	mg/L			03/02/23 16:37	1
Sulfate	<0.40		1.0	0.40	mg/L			03/02/23 16:37	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-765704/34
Matrix: Water
Analysis Batch: 765704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.3		mg/L		103	90 - 110
Fluoride	2.00	2.01		mg/L		100	90 - 110
Sulfate	10.0	9.53		mg/L		95	90 - 110

Lab Sample ID: LCSD 680-765704/35
Matrix: Water
Analysis Batch: 765704

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.3		mg/L		103	90 - 110	0	15
Fluoride	2.00	2.01		mg/L		101	90 - 110	0	15
Sulfate	10.0	9.60		mg/L		96	90 - 110	1	15

Lab Sample ID: 680-230724-D-4 MS
Matrix: Water
Analysis Batch: 765704

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	81		10.0	90.6	4	mg/L		99	80 - 120
Fluoride	0.051	J	2.00	2.03		mg/L		99	80 - 120
Sulfate	7.7		10.0	17.5		mg/L		98	80 - 120

Lab Sample ID: 680-230724-D-4 MSD
Matrix: Water
Analysis Batch: 765704

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	81		10.0	90.7	4	mg/L		100	80 - 120	0	15
Fluoride	0.051	J	2.00	2.05		mg/L		100	80 - 120	1	15
Sulfate	7.7		10.0	17.6		mg/L		99	80 - 120	0	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-764270/1-A
Matrix: Water
Analysis Batch: 764596

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/21/23 09:52	02/22/23 18:23	1
Calcium	<0.14		0.50	0.14	mg/L		02/21/23 09:52	02/22/23 18:23	1
Iron	<0.012		0.050	0.012	mg/L		02/21/23 09:52	02/22/23 18:23	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/21/23 09:52	02/22/23 18:23	1
Magnesium	<0.023		0.50	0.023	mg/L		02/21/23 09:52	02/22/23 18:23	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/21/23 09:52	02/22/23 18:23	1
Potassium	<0.044		0.50	0.044	mg/L		02/21/23 09:52	02/22/23 18:23	1
Sodium	<0.20		0.50	0.20	mg/L		02/21/23 09:52	02/22/23 18:23	1

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-764270/1-A
Matrix: Water
Analysis Batch: 764981

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0248	J	0.080	0.022	mg/L		02/21/23 09:52	02/24/23 15:57	1

Lab Sample ID: LCS 680-764270/2-A
Matrix: Water
Analysis Batch: 764596

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0488		mg/L		98	80 - 120
Calcium	5.00	5.14		mg/L		103	80 - 120
Iron	5.00	5.31		mg/L		106	80 - 120
Lithium	0.500	0.493		mg/L		99	80 - 120
Magnesium	5.01	4.92		mg/L		98	80 - 120
Manganese	0.400	0.409		mg/L		102	80 - 120
Potassium	6.97	6.98		mg/L		100	80 - 120
Sodium	5.05	5.26		mg/L		104	80 - 120

Lab Sample ID: LCS 680-764270/2-A
Matrix: Water
Analysis Batch: 764981

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.200	0.218		mg/L		109	80 - 120

Lab Sample ID: 680-230804-2 MS
Matrix: Water
Analysis Batch: 764596

Client Sample ID: WAN-PZ-A2M
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.00022	J	0.0500	0.0497		mg/L		99	75 - 125
Iron	0.34		5.00	5.58		mg/L		105	75 - 125
Lithium	0.18		0.500	0.684		mg/L		102	75 - 125
Magnesium	11		5.01	15.5		mg/L		85	75 - 125
Manganese	0.012		0.400	0.428		mg/L		104	75 - 125
Potassium	33		6.97	38.6	4	mg/L		74	75 - 125
Sodium	28		5.05	31.7	4	mg/L		76	75 - 125

Lab Sample ID: 680-230804-2 MS
Matrix: Water
Analysis Batch: 764981

Client Sample ID: WAN-PZ-A2M
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	49	B	0.200	47.6	4	mg/L		-574	75 - 125
Calcium	1300		5.00	1230	4	mg/L		-1031	75 - 125

Lab Sample ID: 680-230804-2 MSD
Matrix: Water
Analysis Batch: 764596

Client Sample ID: WAN-PZ-A2M
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	0.00022	J	0.0500	0.0510		mg/L		102	75 - 125	3	20

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-230804-2 MSD
Matrix: Water
Analysis Batch: 764596

Client Sample ID: WAN-PZ-A2M
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	0.34		5.00	5.81		mg/L		110	75 - 125	4	20
Lithium	0.18		0.500	0.702		mg/L		105	75 - 125	3	20
Magnesium	11		5.01	16.3		mg/L		101	75 - 125	5	20
Manganese	0.012		0.400	0.452		mg/L		110	75 - 125	6	20
Potassium	33		6.97	40.3	4	mg/L		98	75 - 125	4	20
Sodium	28		5.05	33.1	4	mg/L		103	75 - 125	4	20

Lab Sample ID: 680-230804-2 MSD
Matrix: Water
Analysis Batch: 764981

Client Sample ID: WAN-PZ-A2M
Prep Type: Total Recoverable
Prep Batch: 764270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	49	B	0.200	47.3	4	mg/L		-711	75 - 125	1	20
Calcium	1300		5.00	1220	4	mg/L		-1072	75 - 125	0	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-764663/4
Matrix: Water
Analysis Batch: 764663

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	<5.0		5.0	5.0	mg/L			02/22/23 15:05	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/22/23 15:05	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/22/23 15:05	1

Lab Sample ID: LCS 680-764663/6
Matrix: Water
Analysis Batch: 764663

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	251		mg/L		101	90 - 112

Lab Sample ID: LCSD 680-764663/31
Matrix: Water
Analysis Batch: 764663

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	255		mg/L		102	90 - 112	1	30

Lab Sample ID: 680-230827-A-3 DU
Matrix: Water
Analysis Batch: 764663

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	17		15.9		mg/L		6	30
Bicarbonate Alkalinity as CaCO3	17		15.9		mg/L		6	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: MB 680-764666/4
Matrix: Water
Analysis Batch: 764666

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	<5.0		5.0	5.0	mg/L			02/22/23 20:28	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/22/23 20:28	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/22/23 20:28	1

Lab Sample ID: LCS 680-764666/6
Matrix: Water
Analysis Batch: 764666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	251		mg/L		100	90 - 112

Lab Sample ID: LCSD 680-764666/31
Matrix: Water
Analysis Batch: 764666

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	254		mg/L		102	90 - 112	1	30

Lab Sample ID: 680-230805-F-14 DU
Matrix: Water
Analysis Batch: 764666

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	10		7.34		mg/L		30	30
Bicarbonate Alkalinity as CaCO3	10		7.34		mg/L		30	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-764716/1
Matrix: Water
Analysis Batch: 764716

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			02/23/23 13:26	1

Lab Sample ID: LCS 680-764716/2
Matrix: Water
Analysis Batch: 764716

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	2340	2410		mg/L		103	80 - 120

Lab Sample ID: LCSD 680-764716/3
Matrix: Water
Analysis Batch: 764716

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2340	2360		mg/L		101	80 - 120	2	25

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: 680-230845-F-2 DU
 Matrix: Water
 Analysis Batch: 764716

Client Sample ID: Duplicate
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	400		406		mg/L		1	5

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-764836/1
 Matrix: Water
 Analysis Batch: 764836

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			02/24/23 09:26	1

Lab Sample ID: LCS 680-764836/2
 Matrix: Water
 Analysis Batch: 764836

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	9.09		mg/L		91	75 - 125

Lab Sample ID: LCSD 680-764836/3
 Matrix: Water
 Analysis Batch: 764836

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	10.0	9.02		mg/L		90	75 - 125	1	30

Lab Sample ID: 680-230804-2 MS
 Matrix: Water
 Analysis Batch: 764836

Client Sample ID: WAN-PZ-A2M
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.81		6.94	5.55		mg/L		80	75 - 125

Lab Sample ID: 680-230804-2 MSD
 Matrix: Water
 Analysis Batch: 764836

Client Sample ID: WAN-PZ-A2M
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.81		6.94	5.55		mg/L		80	75 - 125	0	30

Lab Sample ID: 680-230804-1 DU
 Matrix: Water
 Analysis Batch: 764836

Client Sample ID: WAN-PZ-A2S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	<0.81		<0.81		mg/L		NC	30

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

HPLC/IC

Analysis Batch: 765703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total/NA	Water	300.0-1993 R2.1	
680-230804-2	WAN-PZ-A2M	Total/NA	Water	300.0-1993 R2.1	
680-230804-3	WAN-PZ-A2D	Total/NA	Water	300.0-1993 R2.1	
MB 680-765703/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-765703/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-765703/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-230724-D-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-230724-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 765704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1 - DL	WAN-PZ-A2S	Total/NA	Water	300.0-1993 R2.1	
680-230804-2 - DL	WAN-PZ-A2M	Total/NA	Water	300.0-1993 R2.1	
MB 680-765704/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-765704/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-765704/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-230724-D-4 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-230724-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 764270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total Recoverable	Water	3005A	
680-230804-2	WAN-PZ-A2M	Total Recoverable	Water	3005A	
680-230804-3	WAN-PZ-A2D	Total Recoverable	Water	3005A	
MB 680-764270/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-764270/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-230804-2 MS	WAN-PZ-A2M	Total Recoverable	Water	3005A	
680-230804-2 MSD	WAN-PZ-A2M	Total Recoverable	Water	3005A	

Analysis Batch: 764596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total Recoverable	Water	6020B	764270
680-230804-2	WAN-PZ-A2M	Total Recoverable	Water	6020B	764270
680-230804-3	WAN-PZ-A2D	Total Recoverable	Water	6020B	764270
MB 680-764270/1-A	Method Blank	Total Recoverable	Water	6020B	764270
LCS 680-764270/2-A	Lab Control Sample	Total Recoverable	Water	6020B	764270
680-230804-2 MS	WAN-PZ-A2M	Total Recoverable	Water	6020B	764270
680-230804-2 MSD	WAN-PZ-A2M	Total Recoverable	Water	6020B	764270

Analysis Batch: 764981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total Recoverable	Water	6020B	764270
680-230804-2	WAN-PZ-A2M	Total Recoverable	Water	6020B	764270
680-230804-3	WAN-PZ-A2D	Total Recoverable	Water	6020B	764270
MB 680-764270/1-A	Method Blank	Total Recoverable	Water	6020B	764270
LCS 680-764270/2-A	Lab Control Sample	Total Recoverable	Water	6020B	764270
680-230804-2 MS	WAN-PZ-A2M	Total Recoverable	Water	6020B	764270
680-230804-2 MSD	WAN-PZ-A2M	Total Recoverable	Water	6020B	764270

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QC Association Summary

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

General Chemistry

Analysis Batch: 764663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total/NA	Water	2320B-2011	
MB 680-764663/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-764663/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-764663/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-230827-A-3 DU	Duplicate	Total/NA	Water	2320B-2011	

Analysis Batch: 764666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-2	WAN-PZ-A2M	Total/NA	Water	2320B-2011	
680-230804-3	WAN-PZ-A2D	Total/NA	Water	2320B-2011	
MB 680-764666/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-764666/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-764666/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-230805-F-14 DU	Duplicate	Total/NA	Water	2320B-2011	

Analysis Batch: 764716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total/NA	Water	2540C-2011	
680-230804-2	WAN-PZ-A2M	Total/NA	Water	2540C-2011	
680-230804-3	WAN-PZ-A2D	Total/NA	Water	2540C-2011	
MB 680-764716/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-764716/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-764716/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-230845-F-2 DU	Duplicate	Total/NA	Water	2540C-2011	

Analysis Batch: 764836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total/NA	Water	4500 S2 F-2011	
680-230804-2	WAN-PZ-A2M	Total/NA	Water	4500 S2 F-2011	
680-230804-3	WAN-PZ-A2D	Total/NA	Water	4500 S2 F-2011	
MB 680-764836/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-764836/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-764836/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-230804-2 MS	WAN-PZ-A2M	Total/NA	Water	4500 S2 F-2011	
680-230804-2 MSD	WAN-PZ-A2M	Total/NA	Water	4500 S2 F-2011	
680-230804-1 DU	WAN-PZ-A2S	Total/NA	Water	4500 S2 F-2011	

Field Service / Mobile Lab

Analysis Batch: 764382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-230804-1	WAN-PZ-A2S	Total/NA	Water	Field Sampling	
680-230804-2	WAN-PZ-A2M	Total/NA	Water	Field Sampling	
680-230804-3	WAN-PZ-A2D	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Client Sample ID: WAN-PZ-A2S

Lab Sample ID: 680-230804-1

Date Collected: 02/17/23 11:05

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	765703	03/02/23 12:13	UI	EET SAV
Instrument ID: CICK										
Total/NA	Analysis	300.0-1993 R2.1	DL	10	5 mL	5 mL	765704	03/02/23 19:15	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 18:47	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		20			764981	02/24/23 16:21	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2320B-2011		1			764663	02/22/23 16:27	PG	EET SAV
Instrument ID: MANTECH 2										
Total/NA	Analysis	2540C-2011		1	25 mL	200 mL	764716	02/23/23 13:26	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	764836	02/24/23 09:26	JAS	EET SAV
Instrument ID: NoEquip										
Total/NA	Analysis	Field Sampling		1			764382	02/17/23 11:05	P1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WAN-PZ-A2M

Lab Sample ID: 680-230804-2

Date Collected: 02/17/23 11:30

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	765703	03/02/23 12:26	UI	EET SAV
Instrument ID: CICK										
Total/NA	Analysis	300.0-1993 R2.1	DL	10	5 mL	5 mL	765704	03/02/23 19:28	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 18:31	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		100			764981	02/24/23 16:05	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2320B-2011		1			764666	02/22/23 23:57	PG	EET SAV
Instrument ID: MANTECH 2										
Total/NA	Analysis	2540C-2011		1	10 mL	200 mL	764716	02/23/23 13:26	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	764836	02/24/23 09:26	JAS	EET SAV
Instrument ID: NoEquip										
Total/NA	Analysis	Field Sampling		1			764382	02/17/23 11:30	P1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Client Sample ID: WAN-PZ-A2D

Lab Sample ID: 680-230804-3

Date Collected: 02/17/23 10:00

Matrix: Water

Date Received: 02/18/23 06:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	765703	03/02/23 12:39	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764596	02/22/23 18:43	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	764270	02/21/23 09:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			764981	02/24/23 16:17	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2320B-2011		1			764666	02/22/23 23:46	PG	EET SAV
Instrument ID: MANTECH 2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	764716	02/23/23 13:26	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	4500 S2 F-2011		1	290 mL	290 mL	764836	02/24/23 09:26	JAS	EET SAV
Instrument ID: NoEquip										
Total/NA	Analysis	Field Sampling		1			764382	02/17/23 10:00	P1C	EET SAV
Instrument ID: NOEQUIP										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-23
Georgia	State	E87052	06-30-23

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Method Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond - IW Wells

Job ID: 680-230804-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
4500 S2 F-2011	Sulfide, Total	SM	EET SAV
Field Sampling	Field Sampling	EPA	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody Record

Client Information Client Contact: <u>David Fuller</u> SCS Contacts: <u>David Fuller</u> Company: <u>GA Power</u>		Lab PM: <u>David Fuller</u> E-Mail: <u>David Fuller</u>		Carrier Tracking No(s): Job #: <u>101</u>	
Address: <u>2411 Ralph McGill Blvd SE</u> City: <u>Atlanta</u> State: <u>GA</u> , Zip: <u>30308</u> Phone: <u>404-506-7116(Tel)</u> Email: <u>SCS Contacts / Geosyntec Contacts / ACC Contacts</u> Project Name: <u>Plant Wansley Ash Pond - IW Wells</u> Site:		Due Date Requested: TAT Requested (days): <u>Standard</u> Lab Project #: <u>68027766</u> PO #: <u>Project #:</u> SOW#:		Analysis Requested Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium Major Ions - Sulfide Major Ions - Carbonate, Bicarbonate, Total Alkalinity Radium 226 & 228 (SW-846 9316/9320) Select Metals (EPA 6020) Be, Li Cl, F, SO & TDS (EPA 300 & SM 2540C) App III Metals B, Ca Perform MS/MSD (Yes or No)	
Sample Identification WAN-PZ-A2S WAN- AWAN -PZ-A2M WAN-PZ-A2D		Sample Date (mm/dd/yy) 02/17/23 02/17/23 02/17/23		Sample Time (hhmm) 1105 1130 1000	
Sample Type (C=Comp, G=grab) Preservation Code:		Field Filtered Sample (Yes or No) N N N		Total Number of Containers X 6 6 6	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested I, II, III, IV Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Relinquished by: <u>David Fuller</u> Relinquished by: <u>Michael Mesford</u> Relinquished by:		Date/Time: 2/17/23 1427 2/17/23 1427 Date/Time:		Method of Shipment Date/Time: 2/17/23 1427 Date/Time: 2/18/23 0670 Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: <u>1.0/1.0</u>		Task Code: <u>WAN-CCR-ASSMT-2023S1</u> Special Instructions/Note: <u>Full APP III and Major Ions</u>	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-230804-1

Login Number: 230804

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C

Laboratory Treatability Study to Evaluate Beryllium and Lithium Adsorption and Desorption in Geological Materials and Groundwater

Prepared for:

Lauren Fitzgerald
Geosyntec Consultants, Inc.
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Suite 202
Baton Rouge, LA 70808

FINAL

**Laboratory Treatability Study to Evaluate
Beryllium and Lithium Adsorption and
Desorption in Geological Materials and
Groundwater**

Plant Wansley, GA

Prepared by:



180B Market Place Blvd
Knoxville, TN 37909

SiREM Ref: Si-06641-042123

October 2023

siremlab.com

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LIST OF ABBREVIATIONS

%	percent
°C	degrees Celsius
Be	beryllium
g	grams
g/L	grams per liter
GM:GW	geologic material/groundwater ratio
HDPE	high-density polyethylene
L	liter
Li	lithium
mg/L	milligrams per liter
mL	milliliter
mV	millivolts
N ₂	nitrogen Gas
O ₂	oxygen gas
ORP	oxidation reduction potential
SiREM	SiREM Laboratory
µg/L	micrograms per liter

1. INTRODUCTION

Geosyntec Consultants, Inc. (Geosyntec) retained SiREM laboratory (SiREM) in Knoxville TN to perform a laboratory treatability study to assess the adsorption and desorption behavior of beryllium (Be) and lithium (Li) in groundwater and geologic material from the Plant Wansley site in Georgia (the Site). The purpose of the study was to assess the sorption and desorption characteristics of Be and Li under ambient, oxidizing, and reducing conditions.

The geologic materials and groundwater were collected by Geosyntec personnel at the Site on June 29, 2023 and were received by SiREM on July 23, 2023. The materials received and chosen for the study are summarized below in Table 1 and the chain of custodies that accompanied the samples are provided in Appendix A.

Table 1: Summary of the Site Materials Received for Testing

Test	Client Sample ID (Sediment)	Client Sample ID (Groundwater)
Adsorption	WGWC-28D-30-40	WGWC-20
	WGWC-28D-65-75	
Desorption	WGWC-28D-30-40	WGWA-18
	WGWC-28D-65-75	

The remainder of this report contains the experimental materials and methods in Section 2, and the results in Section 3.

2. MATERIALS AND METHODS

The following sections describe the materials and methods used for baseline sampling and homogenization (Section 2.1), adsorption test reactor construction and incubation (Section 2.2), desorption test reactor construction and incubation (Section 2.3), and study sampling and analysis (Section 2.4).

2.1 Baseline Sampling and Homogenization

Site geologic material from locations WGWC-28D-30-40 and WGWC-28D-65-75 were analyzed for baseline Be and Li and percent moisture. Samples of WGWC-20 and WGWA-18 groundwater were analyzed for baseline dissolved Be and Li and performed by Eurofins Canton, OH. Additionally, a subsample of WGWC-28D-30-40 and WGWC-28D-65-75 were manually crushed at SiREM in preparation of sorption testing.

Following baseline analyses and sample crushing, all samples were stored at room temperature (22°C) until sorption testing commenced.

2.2 Adsorption Test Reactor Construction and Incubation

In consultation with Geosyntec, it was determined that the starting aqueous concentrations of Be and Li in the reactor groundwater should be double the concentrations measured in the groundwater baseline analysis to reliably distinguish adsorbed Be and Li from analytical variation. Therefore, homogenized groundwater was spiked with respective Be and Li solutions prepared as detailed in Table 2 to achieve the intended target concentrations prior to reactor construction.

Table 2: Stock Solutions Prepared to Spike Groundwater for Adsorption

Groundwater	Analyte	Target Concentration (mg/L)	Spiking Compound	Chemical Formula
WGWC-20	Beryllium	0.0176	Beryllium Nitrate standard solution	(Be(NO ₃) ₂)
	Lithium	0.28	Lithium Chloride solution	LiCl

Adsorption test reactors were constructed on the benchtop in two sets designated Set 1 and Set 2. Set 1 was constructed on August 7, 2023, with the following combination of spiked groundwater and crushed geologic material:

- WGWC-20 groundwater and WGWC-28D-30-40 geologic material

Set 2 was constructed on August 7, 2023, with the following combination of spiked groundwater and crushed geologic material:

- WGWC-20 groundwater and WGWC-28D-65-75 geologic material

Reactors were constructed by filling sterile 500 millilitre (mL) (nominal volume) HDPE bottles with a calculated mass of geologic material and spiked groundwater to achieve geologic material/groundwater ratios (GM:GW) of 2:1, 1:1, 1:5, 1:10 and 1:20. Groundwater only controls were also constructed for each set. All the reactors were set up in duplicate.

After construction, the reactors were incubated on the benchtop for a period of 7 days at room temperature ($\pm 22^{\circ}\text{C}$). During incubation, reactors were inverted once daily to increase contact between the geologic material and groundwater. Adsorption test reactor controls, treatments and amendments are summarized in Table 4.

2.3 Desorption Test Reactor Construction and Incubation

The desorption testing was done in two phases. The first phase was a 7-day adsorption incubation (Day -7 to Day 0) where reactors were incubated with impacted groundwater at a GM:GW ratio identified during the adsorption test to allow to equilibrate. The second phase was a 7-day desorption incubation (Day 0 to Day 7) where the impacted groundwater used for the initial 7-

day adsorption was decanted from the reactors, leaving behind the geologic material with the sorbed metals. Unimpacted groundwater was then added to the geological material to evaluate desorption of the metals when challenged with unequilibrated conditions. Prior to reactor construction, subsamples of both geologic materials were sent to Eurofins (Canton, OH) for particle size reduction (crushing). In consultation with Geosyntec, it was decided that the starting aqueous concentrations of Be and Li in the adsorption phase reactor groundwater should be double the concentrations measured in the groundwater baseline analysis. Therefore, homogenized groundwater was spiked with respective Be and Li solutions prepared as detailed in Table 3 to achieve the intended target concentrations prior to reactor construction.

Table 3: Stock Solutions Prepared to Spike Groundwater for Desorption

Groundwater	Analyte	Target Concentration (mg/L)	Spiking Compound	Chemical Formula
WGWC-20	Beryllium	0.0176	Beryllium Nitrate standard solution	(Be(NO ₃) ₂)
	Lithium	0.28	Lithium Chloride solution	LiCl

Desorption test reactors were constructed on the benchtop in two sets designated Set 3 and Set 4. Set 3 was constructed on September 26, 2023, with the following combination of groundwater and geologic material:

- WGWC-20 groundwater and WGWC-28D-30-40 geologic material

Set 4 was constructed on September 26, 2023, with the following combination of spiked groundwater and geological material:

- WGWC-20 groundwater and WGWC-28D-65-75 geologic material

Reactors were constructed by filling sterile 1.5 L (nominal volume) HDPE bottles with geologic material and groundwater at a GM:GW ratio of 1:10 following consultation with Geosyntec based on adsorption test results.

After construction (Day -7), the reactors began their first 7-day incubation period (Day -7 to Day 0) on the benchtop at room temperature (22°C) to allow the Be and Li to come to equilibrium with the geologic material in the same manner as during the adsorption test.

On October 5, 2023 (Day 0) the impacted WGWC-20 groundwater was removed from the Set 3 and Set 4 reactors and replaced with upgradient unimpacted WGWA-18 groundwater at a GM:GW ratio of 1:1 following consultation with Geosyntec. Reactors were left to incubate on the benchtop at room temperature (22°C) for a period of 7 days to evaluate the desorption of Be and Li from the geologic material.

During the second 7-day incubation period (Day 0 to Day 7), a separate set of treatment reactors were amended periodically by bubbling with nitrogen gas (N_2) to stimulate reducing conditions. A second set of treatment reactors were amended periodically by bubbling with oxygen gas (O_2) to stimulate oxidizing conditions. As a control, a set of reactors were left undisturbed to simulate ambient conditions.

Throughout the incubation periods, reactors were inverted once daily to increase contact between geologic material and groundwater. Desorption test reactor controls, treatments and amendments are summarized in Table 5.

3. SAMPLING AND ANALYSIS

3.1 Reactor Sampling

For the adsorption test, control reactors were sampled on Day 0 and Day 7 of the incubation period. The test treatment reactors were sampled only on Day 7 of the incubation period. The desorption test control reactors were sampled on Day -7, Day 0, and Day 7 of their incubation periods. Oxidation and reduction treatment reactors were sampled only on Day 7. All samples were submitted for analysis of pH, oxidation reduction potential (ORP), and dissolved metals.

3.2 Analysis of pH and ORP

The pH and ORP of reactors were recorded using an Accumet Excel 15 XL pH and ORP meter (Fisher Scientific, Hampton, NH). The pH probe was calibrated with pH 4.0, pH 7.0, and pH 10.0 buffers prior to use. The pH was measured by inserting the probe into the reactor bottles and recording the pH value upon stabilization. The ORP probe calibration was verified against a standard solution, followed by inserting the ORP probe into the reactor bottles and recording the ORP value once the readout stabilized.

3.3 Analysis of Groundwater

Groundwater analyses were completed by Eurofins Canton, OH. Samples were sent on ice under chain of custody. Dissolved Be and Li was measured following Method 6020B. All reports from Eurofins are presented in Appendix B.

3.4 Analysis of Geologic Material

Geologic material from WGWC-28D-30-40 and WGWC-28D-65-75 were sent under chain of custody to Eurofins Canton, OH for baseline analyses of Be and Li following Method 6010D. All reports from Eurofins are presented in Appendix B.

4. RESULTS

Tables 6 and 7 present a summary of baseline geologic material and groundwater baseline analysis results, respectively. The baseline analysis of the geologic material indicated that WGWC-28D-30-40 contained 0.47 mg/kg Be and 5.7 mg/kg Li and WGWC-28D-65-75 contained

0.22 mg/kg of Be and 13 mg/kg of Li. The dissolved concentrations of Be and Li present in the impacted groundwater sample WGWC-20 were 8.8 µg/L Be and 140 µg/L Li, respectively. Although the Be and Li concentrations were well above the detection limit of the Method, additional Be and Li were spiked into WGWC-20 for reactor construction to double that of the baseline concentration to accurately measure the extent of sorption of both metals by the Site geologic material. The concentration of Be and Li in the upgradient water sample outside the impacted zone could not be detected below the reporting limits of the Method and were reported as <0.62 µg/L Be and <1.7 µg/L Li, respectively.

Tables 8 and 9 present the dissolved metals, pH, and ORP results, respectively, from the adsorption tests. The data suggested that only Be, and not Li, will potentially sorb to Site geologic material. The GM:GW ratios that showed the most promising Be adsorption behavior for WGWC-28D-30-40 were 2:1 and 1:1. At these two ratios, the geologic material sorbed an average of 89% of dissolved Be at 2:1 and 84.5% at 1:1. For WGWC-28D-65-75, the most promising Be adsorption ratios were 1:1 and 1:10. At these two ratios, the geologic material sorbed an average of 96.2% of dissolved Be at 1:1 and 96.9% at 1:10. The best Li adsorption ratio for WGWC-28D-30-40 was 1:1 where an average of 8.8% of dissolved Li was sorbed. For WGWC-28D-65-75, the best Li adsorption ratio was 2:1 where an average of 5.1% of dissolved Li was sorbed. pH for both sets of reactors was relatively stable throughout testing. Groundwater exposed to geological material WGWC-28D-30-40 acidified slightly from 6.5 to 6.1, whereas groundwater contacting WGWC-28D-65-75 material became slightly more alkaline varying between 6.4 and 6.9. The ORP was positive suggesting the presence of oxic conditions for both WGWC-28D-30-40 and WGWC-28D-65-75 reactors and averaged 248.6 mV and 234.4 mV, respectively.

To evaluate whether the Be and Li adsorbed to the geological material will subsequently desorb when challenged with background groundwater impacted with little to no dissolved Be and Li, SiREM repeated the adsorptions test followed by replacing the groundwater from the adsorption studies with background groundwater.

Tables 10 and 11 present the dissolved metals, pH, and ORP results after a 7-day incubation using background groundwater following Be and Li adsorption, respectively. Reactors were incubated under ambient, as well as oxidative and reducing conditions by sparging the reactors with oxygen and nitrogen, respectively. However, the reducing conditions was not easily established and resembled mV readings similar to that of the oxidative conditions.

During the adsorption/desorption test using a GM:GW ratio of 1:10, the same percentage (40%) of Be was observed to sorb to WGWC-28D-30-40 as during the adsorption. However, the sorption of Be to WGWC-28D-65-75 was only half as effective as during the adsorption test (41% vs 96%). One possible explanation may be sample heterogeneity; however, this warrants additional investigation which was not part of this study.

Little to no desorption of Be was observed when WGWC-28D-30-40 was incubated with background groundwater under oxidizing and reducing conditions. However, one replicate of the ambient conditions measured over 84% of Be desorbing from the geologic material, with the second replicate at over 26% desorption. No desorption of Be was observed when WGWC-28D-

65-75 was incubated with background groundwater under ambient, oxidative, or reductive conditions. Although Li did not sorb to either geologic material, it seems to have leached (desorbed) from both materials under all conditions.

The average pH of the ambient treatment WGWC-28D-30-40 reactors with unimpacted groundwater was 6.85 and remained unchanged under reducing conditions (6.90) yet, under oxidizing conditions became more alkaline (7.26). For reactors containing WGWC-28D-65-75 with unimpacted background water the average ambient pH was 7.01. Under oxidizing conditions the pH trended more alkaline (7.29), whereas under reducing conditions became more acidic (6.62).

The ORP under oxidizing and reducing conditions for reactors with WGWC-28D-30-40 material was recorded as 96.7 mV and 80.0 mV, respectively, relative to the ambient ORP of 97.1 mV in the control reactors. For reactors containing WGWC-28D-65-75 material the ORP under oxidizing conditions averaged 100.1 mV relative to the control (94.5 mV), whereas the under reducing conditions the ORP averaged 86.2 mV.

5. CONCLUSIONS

SiREM performed a laboratory treatability study to evaluate Be and Li adsorption and desorption in geological materials and groundwater at the Plant Wansley site in Georgia. The results suggested that of the two metals evaluated, only Be successfully adsorbed to the Site geologic material. However, Be may desorb when challenged with unimpacted groundwater under ambient conditions after being adsorbed to WGWC-28D-30-40 material, but is likely to remain sorbed when challenged with unimpacted groundwater under oxidizing or reducing conditions. When sorbed to WGWC-28D-65-75 material, Be is likely to stay sorbed when challenged with unimpacted groundwater under ambient, oxidizing or reducing conditions. Li was not observed to sorb to either geologic material but may leach from geological material contacted with unimpacted groundwater.

TABLES

TABLE 4: SUMMARY OF ADSORPTION TEST REACTOR CONTROLS, TREATMENTS, AND AMENDMENTS

Plant Wansley Site

Ground-water Sample ID	Geologic Material Sample ID	Treatment	Description	Number of Reactors	Incubation Period & Sampling Frequency	Reactors Contents				Number of Analyses	
						Groundwater	Wet Geologic Material	Beryllium	Lithium	Dissolved Metals	pH and ORP
						(mL)	(g)				
WGWC-20 spiked with Be and Li	--	Control Groundwater Only	Groundwater only	2(2*)	7 Days (Sampled on Days 0 and 7)	150	--	WGWC-20 amended with 12.98 µL of a 10 g/L Be(NO ₃) ₂ solution to target a 0.0176 mg/L Be concentration prior to reactor construction	WGWC-20 amended with 855.09 µL of a 1 g/L LiCl solution to target a 0.28 mg/L Li concentration prior to reactor construction	4	4
	WGWC-28D-30-40	Soil:Water Ratio 2:1	Geologic Material and Water in a 2:1 ratio, shaken once daily during incubation	2	7 Days (Sampled on Day 7)	150	300			2	2
		Soil:Water Ratio 1:1	Geologic Material and Water in a 1:1 ratio, shaken once daily during incubation	2		150	150			2	2
		Soil:Water Ratio 1:5	Geologic Material and Water in a 1:5 ratio, shaken once daily during incubation	2		150	30			2	2
		Soil:Water Ratio 1:10	Geologic Material and Water in a 1:10 ratio, shaken once daily during incubation	2		150	15			2	2
		Soil:Water Ratio 1:20	Geologic Material and Water in a 1:20 ratio, shaken once daily during incubation	2		150	7.5			2	2

TABLE 4: SUMMARY OF ADSORPTION TEST REACTOR CONTROLS, TREATMENTS, AND AMENDMENTS

Plant Branch Site

Ground-water Sample ID	Geologic Material Sample ID	Treatment	Description	Number of Reactors	Incubation Period & Sampling Frequency	Reactors Contents				Number of Analyses	
						Groundwater	Wet Geologic Material	Beryllium	Lithium	Dissolved Metals	pH and ORP
						(mL)	(g)				
WGWC-20 spiked with Be and Li	--	Control Groundwater Only	Groundwater only	2(2*)	7 Days (Sampled on Days 0 and 7)	150	--	WGWC-20 amended with 12.98 µL of a 10 g/L Be(NO ₃) ₂ solution to target a 0.0176 mg/L Be concentration prior to reactor construction	WGWC-20 amended with 855.09 µL of a 1 g/L LiCl solution to target a 0.28 mg/L Li concentration prior to reactor construction	4	4
	WGWC-28D-65-75	Soil:Water Ratio 2:1	Geologic Material and Water in a 2:1 ratio, shaken once daily during incubation	2	7 Days (Sampled on Day 7)	150	300			2	2
		Soil:Water Ratio 1:1	Geologic Material and Water in a 1:1 ratio, shaken once daily during incubation	2		150	150			2	2
		Soil:Water Ratio 1:5	Geologic Material and Water in a 1:5 ratio, shaken once daily during incubation	2		150	30			2	2
		Soil:Water Ratio 1:10	Geologic Material and Water in a 1:10 ratio, shaken once daily during incubation	2		150	15			2	2
		Soil:Water Ratio 1:20	Geologic Material and Water in a 1:20 ratio, shaken once daily during incubation	2		150	7.5			2	2

Notes:

-- - Not applicable

Be(NO₃)₂ - Beryllium Nitrate

ID - Identification Number

Li - Lithium

mg/L - milligrams per liter

ORP - Oxidation Reduction Potential

Be - Beryllium

g/L - grams per liter

L - liter

LiCl - Lithium Chloride

mL - milliliters

µL - microliter

TABLE 5: SUMMARY OF DESORPTION TEST REACTOR CONTROLS, TREATMENTS, AND AMENDMENTS

Plant Wansley Site

Ground-water Sample ID	Geologic Material Sample ID	Treatment	Description	Number of Reactors	Incubation Period & Sampling Frequency	Reactors Contents				Amendments		Number of Analyses	
						Ground-water	Wet Geologic Material	Beryllium	Lithium	Oxygen Gas	Hydrogen Gas	Dissolved Metals	pH and ORP
						(mL)	(g)						
WGWC-20 then WGWA-18	WGWC-28D-30-40	Ambient Control	Shaken once daily during incubation	2 (6*)	7 Days (Sampled on Days 0 and 7)	150	150	WGWC-20 amended with 12.98 µL of a 10 g/L Be(NO ₃) ₂ solution to target a 0.0176 mg/L Be concentration prior to reactor construction	WGWC-20 amended with 855.09 µL of a 1 g/L LiCl solution to target a 0.28 mg/L Li concentration prior to reactor construction	--	--	8	8
		Oxidizing Conditions	Oxygen gas addition and shaken once daily during incubation	2	7 Days (Sampled on Day 7)	150	150			Amended periodically bubbling with pure oxygen gas	--	2	2
		Reducing Conditions	Nitrogen gas addition and shaken once daily during incubation	2		150	150			--	Amended periodically bubbling with nitrogen gas	2	2
WGWC-20 then WGWA-18	WGWC-28D-65-75	Ambient Control	Shaken once daily during incubation	2 (6*)	7 Days (Sampled on Days 0 and 7)	150	150	WGWC-20 amended with 12.98 µL of a 10 g/L Be(NO ₃) ₂ solution to target a 0.0176 mg/L Be concentration prior to reactor construction	WGWC-20 amended with 855.09 µL of a 1 g/L LiCl solution to target a 0.28 mg/L Li concentration prior to reactor construction	--	--	8	8
		Oxidizing Conditions	Oxygen gas addition and shaken once daily during incubation	2	7 Days (Sampled on Day 7)	150	150			Amended periodically bubbling with pure oxygen gas	--	2	2
		Reducing Conditions	Nitrogen gas addition and shaken once daily during incubation	2		150	150			--	Amended periodically bubbling with nitrogen gas	2	2

Notes:

*- Numbers in brackets represent additional sacrificial control reactors required for analytical sample volumes

-- - Not Applicable

Be - Beryllium

Be(NO₃)₂ - Beryllium Nitrate

g - grams

ID - Identification Number

Li - Lithium

LiCl - Lithium Chloride

mL - milliliters

ORP - Oxidation Reduction Potential

TABLE 6: SUMMARY OF BASELINE GEOLOGIC MATERIAL RESULTS**Plant Wansley Site**

Geologic Material Sample ID	Date	Total Be	Total Li	Percent Moisture
		mg/kg	mg/kg	%
WGWC-28D-30-40	19-Jul-23	0.47	5.7	0.3
WGWC-28D-65-75	19-Jul-23	0.22	13	0.2

Notes:

Matrix Spike and/or Matrix Spike Duplicate recovery exceeded control limits for all samples

italics - indicates the result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value

% - percent

Be - Beryllium

Li - Lithium

mg/kg - milligrams per kilogram

TABLE 7: SUMMARY OF BASELINE GROUNDWATER RESULTS

Plant Wansley Site

Groundwater Sample ID	Date	Dissolved Be ug/L	Dissolved Li ug/L
WGWA-18	19-Jul-23	ND<0.62	ND<1.7
WGWC-20	19-Jul-23	8.8	140

Notes:

Be - Beryllium

Li - Lithium

ID - Identification Number

ug/L - micrograms per liter

TABLE 8: SUMMARY OF ADSORPTION TEST DISSOLVED BERYLLIUM AND LITHIUM

Plant Wansley Site

Groundwater Sample ID	Geologic Material Sample ID	Treatment	Sample Day	Date	Internal Sample ID	Dissolved Be	Dissolved Li	Percent Difference Be*	Percent Difference Li*
						RL: 1.0	RL: 8.0		
						ug/L	ug/L		
WGWC-20 spiked with Be and Li	--	Control Groundwater Only	0	7-Aug-23	40-CTRL1a	20.0	280	--	--
					40-CTRL2a	20.0	290	--	--
					Average	20.0	285	--	--
			7	15-Aug-23	40-CTRL1b	20.0	290	0.00	-1.75
					40-CTRL2b	20.0	290	0.00	-1.75
					Average	20.0	290	0.00	-1.75
	WGWC-28D-30-40	Soil:Water Ratio 2:1	7	15-Aug-23	40-R1a	2.30	290	88.50	-1.75
					40-R1b	2.10	310	89.50	-8.77
				Average	2.20	300	89.00	-5.26	
		Soil:Water Ratio 1:1	7	15-Aug-23	40-R2a	4.80	300	76.00	-5.26
					40-R2b	1.40	320	93.00	-12.28
				Average	3.10	310	84.50	-8.77	
	Soil:Water Ratio 1:5	7	15-Aug-23	40-R3a	3.40	290	83.00	-1.75	
				40-R3b	6.10	290	69.50	-1.75	
			Average	4.75	290	76.25	-1.75		
	Soil:Water Ratio 1:10	7	15-Aug-23	40-R4a	14.0	310	30.00	-8.77	
				40-R4b	10.0	300	50.00	-5.26	
			Average	12.0	305	40.00	-7.02		
Soil:Water Ratio 1:20	7	15-Aug-23	40-R5a	2.50	300	87.50	-5.26		
			40-R5b	7.80	290	61.00	-1.75		
		Average	5.15	295	74.25	-3.51			
WGWC-20 spiked with Be and Li	--	Control Groundwater Only	0	7-Aug-23	75-CTRL1a	20.0	290	--	--
					75-CTRL2a	20.0	300	--	--
					Average	20.0	295	--	--
			7	15-Aug-23	75-CTRL1b	20.0	300	0.00	-1.69
					75-CTRL2b	20.0	290	0.00	1.69
					Average	20.0	295	0.00	0.00
	WGWC-28D-65-75	Soil:Water Ratio 2:1	7	15-Aug-23	75-R1a	1.20	300	94.00	-1.69
					75-R1b	1.30	270	93.50	8.47
				Average	1.25	285	93.75	3.39	
		Soil:Water Ratio 1:1	7	15-Aug-23	75-R2a	0.62	290	96.90	1.69
					75-R2b	0.91	290	95.45	1.69
				Average	0.77	290	96.18	1.69	
	Soil:Water Ratio 1:5	7	15-Aug-23	75-R3a	6.50	300	67.50	-1.69	
				75-R3b	0.62	280	96.90	5.08	
			Average	3.56	290	82.20	1.69		
	Soil:Water Ratio 1:10	7	15-Aug-23	75-R4a	0.62	300	96.90	-1.69	
				75-R4b	0.62	310	96.90	-5.08	
			Average	0.62	305	96.90	-3.39		
Soil:Water Ratio 1:20	7	15-Aug-23	75-R5a	16.0	300	20.00	-1.69		
			75-R5b	16.0	300	20.00	-1.69		
		Average	16.0	300	20.00	-1.69			

Notes:

% - percent

* - Percent difference from Control - Day 0 average levels

a positive number indicates sorption and a negative number indicates desorption

-- - Not applicable

italics - Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value

grey - Indicates the analyte was analyzed for but not detected, Method Detection Limit value is presented

Be - Beryllium

Li - Lithium

ID - Identification Number

ug/L - micrograms per liter

RL - Reporting Limit

TABLE 9: SUMMARY OF ADSORPTION TEST pH AND ORP

Plant Wansley Site

Groundwater Sample ID	Geologic Material Sample ID	Treatment	Sample Day	Date	Internal Sample ID	pH	ORP
							mV
WGWC-20 spiked with Be and Li	--	Control Groundwater Only	0	7-Aug-23	40-CTRL1a	6.52	134.0
					40-CTRL2a	6.46	136.0
					Average	6.49	135.0
			7	15-Aug-23	40-CTRL1b	6.92	226.0
					40-CTRL2b	6.30	205.0
					Average	6.61	215.5
	WGWC-28D-30-40	Soil:Water Ratio 2:1	7	15-Aug-23	40-R1a	6.54	191.0
					40-R1b	6.48	277.0
					Average	6.51	234.0
		Soil:Water Ratio 1:1	7	15-Aug-23	40-R2a	6.32	292.0
					40-R2b	6.37	285.0
					Average	6.35	288.5
		Soil:Water Ratio 1:5	7	15-Aug-23	40-R3a	6.26	263.0
					40-R3b	6.19	293.0
					Average	6.23	278.0
		Soil:Water Ratio 1:10	7	15-Aug-23	40-R4a	6.09	300.0
					40-R4b	6.07	298.0
					Average	6.08	299.0
Soil:Water Ratio 1:20	7	15-Aug-23	40-R5a	6.33	287.0		
			40-R5b	6.18	294.0		
			Average	6.26	290.5		
WGWC-20 spiked with Be and Li	--	Control Groundwater Only	0	7-Aug-23	75-CTRL1a	6.33	132.0
					75-CTRL2a	6.40	133.0
					Average	6.37	132.5
			7	15-Aug-23	75-CTRL1b	6.12	297.0
					75-CTRL2b	6.07	305.0
					Average	6.10	301.0
	WGWC-28D-65-75	Soil:Water Ratio 2:1	7	15-Aug-23	75-R1a	6.42	289.0
					75-R1b	6.62	279.0
					Average	6.52	284.0
		Soil:Water Ratio 1:1	7	15-Aug-23	75-R2a	6.86	252.0
					75-R2b	6.91	271.0
					Average	6.89	261.5
		Soil:Water Ratio 1:5	7	15-Aug-23	75-R3a	6.28	278.0
					75-R3b	6.93	72.0
					Average	6.61	175.0
		Soil:Water Ratio 1:10	7	15-Aug-23	75-R4a	7.04	207.0
					75-R4b	6.91	218.0
					Average	6.98	212.5
Soil:Water Ratio 1:20	7	15-Aug-23	75-R5a	6.58	265.0		
			75-R5b	6.49	283.0		
			Average	6.54	274.0		

Notes:

Be - Beryllium

ID - Identification Number

Li - Lithium

mV - millivolts

ORP - Oxidation Reduction Potential

TABLE 10: SUMMARY OF DESORPTION TEST DISSOLVED COBALT AND BERYLLIUM

Plant Wansley Site

Groundwater Sample ID	Geologic Material Sample ID	Treatment	Sample Day	Date	Internal Sample ID	Dissolved Be	Dissolved Li	Percent Difference Be*	Percent Difference Li*
						RL: 1.0	RL: 8.0		
						ug/L	ug/L		
WGWC-20 spiked with Be and Li	WGWC-28D-30-40	Ambient Control	-7	26-Sep-23	40D-CTRL1	19.00	260.0	--	--
					40D-CTRL2	20.00	260.0	--	--
				Average	19.50	260.0	--	--	
			0	5-Oct-23	40D-CTRL3	12.00	250.0	38.5	3.8
					40D-CTRL4	11.00	250.0	43.6	3.8
				Average	11.50	250.0	41.0	3.8	
WGWA-18		0	5-Oct-23	40D-CTRL5	<i>0.82</i>	34.0	--	--	
				40D-CTRL6	<i>0.70</i>	34.0	--	--	
		Average	0.76	34.0	--	--			
		7	12-Oct-23	40D-CTRL7	1.40	44.0	-84.2	-29.4	
				40D-CTRL8	<i>0.96</i>	51.0	-26.3	-50.0	
		Average	1.18	47.5	-55.3	-39.7			
	7	12-Oct-23	40-Oxidizing1	<i>0.77</i>	54.0	-1.3	-58.8		
			40-Oxidizing2	<i>0.62</i>	49.0	--	-44.1		
		Average	0.70	51.5	-1.3	-51.5			
	7	12-Oct-23	40-Reducing1	<i>0.66</i>	61.0	13.2	-79.4		
40-Reducing2			<i>0.62</i>	45.0	--	-32.4			
Average		0.64	53.0	13.2	-55.9				
WGWC-20 spiked with Be and Li	WGWC-28D-65-75	Ambient Control	-7	26-Sep-23	75D-CTRL1	18.00	260.0	--	--
					75D-CTRL2	19.00	310.0	--	--
				Average	18.50	285.0	--	--	
			0	5-Oct-23	75D-CTRL3	12.00	280.0	35.1	1.8
					75D-CTRL4	9.80	300.0	47.0	-5.3
				Average	10.90	290.0	41.1	-1.8	
WGWA-18		0	5-Oct-23	75D-CTRL5	<i>0.79</i>	47.0	--	--	
				75D-CTRL6	<i>0.84</i>	32.0	--	--	
		Average	0.82	39.5	--	--			
		7	12-Oct-23	75D-CTRL7	1.00	51.0	-22.7	-29.1	
				75D-CTRL8	<i>0.65</i>	60.0	20.2	-51.9	
		Average	0.83	55.5	-1.2	-40.5			
	7	12-Oct-23	75-Oxidizing1	<i>0.62</i>	48.0	--	-21.5		
			75-Oxidizing2	<i>0.62</i>	64.0	--	-62.0		
Average		0.62	56.0	--	-41.8				
7	12-Oct-23	75-Reducing1	<i>0.62</i>	48.0	--	-21.5			
		75-Reducing2	<i>0.62</i>	60.0	--	-51.9			
	Average	0.62	54.0	--	-36.7				

Notes:

% - percent

* - Percent difference from Control - Day 0 average levels with WGWC-18 unimpacted groundwater
a positive number indicates sorption and a negative number indicates desorption

-- - Not applicable

italics - Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value

grey - Indicates the analyte was analyzed for but not detected, Method Detection Limit value is presented

Be - Beryllium

ID - Identification Number

Li - Lithium

RL - Reporting Limit

ug/L - micrograms per liter

TABLE 11: SUMMARY OF DESORPTION TEST pH AND ORP

Plant Wansley Site

Groundwater Sample ID	Geologic Material Sample ID	Treatment	Sample Day	Date	Internal Sample ID	pH	ORP
							mV
WGWC-20 spiked with Be and Li	WGWC-28D-30-40	Ambient Control	-7	26-Sep-23	40D-CTRL1	6.91	120.3
					40D-CTRL2	6.84	127.2
				Average	6.88	123.8	
			0	5-Oct-23	40D-CTRL3	6.96	101.6
					40D-CTRL4	6.93	97.4
				Average	6.95	99.5	
WGWA-18		0	5-Oct-23	40D-CTRL5	6.89	98.5	
				40D-CTRL6	6.88	97.5	
		Average	6.89	98.0			
		7	12-Oct-23	40D-CTRL7	6.75	99.2	
				40D-CTRL8	6.89	95.0	
		Average	6.82	97.1			
Oxidizing Conditions	7	12-Oct-23	40-Oxidizing1	7.24	96.0		
			40-Oxidizing2	7.27	97.4		
	Average	7.26	96.7				
Reducing Conditions	7	12-Oct-23	40-Reducing1	6.83	81.4		
			40-Reducing2	6.97	78.5		
	Average	6.90	80.0				
WGWC-20 spiked with Be and Li	WGWC-28D-65-75	Ambient Control	-7	26-Sep-23	75D-CTRL1	6.44	120
					75D-CTRL2	6.26	117.1
				Average	6.35	118.6	
			0	5-Oct-23	75D-CTRL3	6.92	95.4
					75D-CTRL4	6.91	94.5
				Average	6.92	95.0	
WGWA-18		0	5-Oct-23	75D-CTRL5	6.86	95.5	
				75D-CTRL6	6.98	93.8	
		Average	6.92	94.7			
		7	12-Oct-23	75D-CTRL7	7.07	93.5	
				75D-CTRL8	7.11	95.5	
		Average	7.09	94.5			
Oxidizing Conditions	7	12-Oct-23	75-Oxidizing1	7.29	98.5		
			75-Oxidizing2	7.29	101.6		
	Average	7.29	100.1				
Reducing Conditions	7	12-Oct-23	75-Reducing1	6.79	81.3		
			75-Reducing2	6.45	91.1		
	Average	6.62	86.2				

Notes:

Be - Beryllium

ID - Identification Number

Li - Lithium

mV - millivolts

ORP - Oxidation Reduction Potential

APPENDIX A: Chain of Custody Documentation



Canadian Shipping Address: 130 Stone Road West
 Guelph, Ontario N1G 3Z2
 PH: 1-519-822-2265
 Toll Free PH: 1-866-251-1747
 www.siremlab.com

U.S. Shipping Address: 180B Market Place Blvd
 Knoxville, TN 37922
 PH: 1-865-330-0037
 Toll Free PH: 1-866-251-1747

Chain of Custody (COC) Record

Lab #

Project Name Plant Wansley Groundwater Services		Project # (Optional) GW7327B		Analysis										of COCs			
Project Manager Lauren Fitzgerald		Proposal #												Treatability Study (Li, Be)		<div style="font-size: 2em; color: blue; text-align: left;">4 gal Cubitainer Rec'd RL</div>	
Company Geosyntec		Email Address lafitzgerald@geosyntec.com		Sample ID		<div style="font-size: 0.8em; color: blue;">Other Information (Optional)</div>											
Address (Street) 5420 Corporate Blvd #202																Recorded By: _____	
City Baton Rouge		State/Province LA		Country USA		<div style="font-size: 2em; color: blue; transform: rotate(-15deg); opacity: 0.5;">6/29/2023</div>											
Phone # 828-455-4941																Client Sample ID	
Sampler's Signature		Sampler's Printed Name Thomas Kessler		Date		<div style="font-size: 0.8em; color: blue;">1720</div>											
Matrix		Number of Containers														Sample Preservative	
				<div style="font-size: 0.8em; color: blue;">1</div>										Number of Containers			
<div style="font-size: 0.8em; color: blue;">None</div>														Sample Preservative		<input checked="" type="checkbox"/>	
										<div style="font-size: 0.8em; color: blue;">X</div>							
<div style="font-size: 0.8em; color: blue;">WGWA-18</div>																	
										<div style="font-size: 0.8em; color: blue;">06/29/2023</div>							
<div style="font-size: 0.8em; color: blue;">1720</div>																	
										<div style="font-size: 0.8em; color: blue;">Water</div>							
<div style="font-size: 0.8em; color: blue;">1</div>																	
										<div style="font-size: 0.8em; color: blue;">None</div>							
<div style="font-size: 0.8em; color: blue;">X</div>																	

Billing Information (Optional)		Observed Cooler Temperature (°C): 13.2°C		For Lab Use Only	
P.O. #		Corrected Cooler Temperature (°C): 15.3°C		Cooler Number (if applicable): _____	
Bill To:		Thermometer ID: KX00058		Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
				Custody Seal Number (if applicable): _____	

Relinquished By:		Received By:		Relinquished By:		Received By:		Relinquished By:		Received By:	
Signature		Signature		Signature		Signature		Signature		Signature	
Printed Name Thomas Kessler		Printed Name Rosemary Le		Printed Name		Printed Name		Printed Name		Printed Name	
Firm Geosyntec		Firm SiREM		Firm		Firm		Firm		Firm	
Date/Time 7/10/23 11:00		Date/Time 11:01 / 07/11/23		Date/Time		Date/Time		Date/Time		Date/Time	

Please note: The SiREM Knoxville location does not have a loading dock and cannot accept shipments from trucks without a lift gate.



Canadian Shipping Address: 130 Stone Road West
 Guelph, Ontario N1G 3Z2
 PH: 1-519-822-2265
 Toll Free PH: 1-866-251-1747
 www.siremlab.com

U.S. Shipping Address: 180B Market Place Blvd
 Knoxville, TN 37922
 PH: 1-865-330-0037
 Toll Free PH: 1-866-251-1747

Chain of Custody (COC) Record

Lab #

Project Name Plant Wansley Groundwater Services		Project # (Optional) GW7327B		Analysis										of						
Project Manager Lauren Fitzgerald		Proposal #		<div style="text-align: center;"> <p>4 gal Cubitane Rec'd PL</p> </div>										COCs						
Company Geosyntec		Email Address lafitzgerald@geosyntec.com												For Lab Use Only						
Address (Street) 5420 Corporate Blvd #202		SiREM Database Info																		
City Baton Rouge		State/Province LA	Country USA											Recorded By: _____						
Phone # 828-455-4941		Date: _____																		
Sampler's Signature		Sampler's Printed Name Thomas Kessler		Treatability study (Li, Be)	<table border="1"> <tr> <td>Other Information (Optional)</td> <td>Sample ID</td> </tr> <tr> <td>Sample is two containers split between two coolers</td> <td></td> </tr> <tr> <td><i>date on sample should rec'd 6/29</i></td> <td></td> </tr> </table>										Other Information (Optional)	Sample ID	Sample is two containers split between two coolers		<i>date on sample should rec'd 6/29</i>	
Other Information (Optional)	Sample ID																			
Sample is two containers split between two coolers																				
<i>date on sample should rec'd 6/29</i>																				
Client Sample ID		Sampling		Matrix	Number of Containers	Sample Preservative	X													
WGWC-20		Date 06/29/2023	Time 1823	Water	1	None														
Billing Information (Optional)		P.O. #		Observed Cooler Temperature (°C): 13.2°C Corrected Cooler Temperature (°C): 15.3°C Thermometer ID: KX00058										For Lab Use Only						
Bill To:														Cooler Number (if applicable): _____						
														Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable						
														Custody Seal Number (if applicable): _____						

Relinquished By:		Received By:		Relinquished By:		Received By:		Relinquished By:		Received By:	
Signature		Signature		Signature		Signature		Signature		Signature	
Printed Name Thomas Kessler		Printed Name Rosemary Le		Printed Name		Printed Name		Printed Name		Printed Name	
Firm Geosyntec		Firm SiREM		Firm		Firm		Firm		Firm	
Date/Time 7/10/23/1600		Date/Time 07/12/23/11:01		Date/Time		Date/Time		Date/Time		Date/Time	

Please note: The SiREM Knoxville location does not have a loading dock and cannot accept shipments from trucks without a lift gate.

APPENDIX B: Eurofins Laboratory Reports



ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Jacques Smith
Sirem, div of Geosyntec Consultants
180A Market Place Blvd
Knoxville, Tennessee 37922

Generated 7/26/2023 10:03:23 PM

JOB DESCRIPTION

Plant Wansley Sorption

JOB NUMBER

240-188864-1

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Roxanne Cisneros

Generated
7/26/2023 10:03:23 PM

Authorized for release by
Roxanne Cisneros, Senior Project Manager
roxanne.cisneros@et.eurofinsus.com
(615)301-5761



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Definitions/Glossary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Job ID: 240-188864-1

Laboratory: Eurofins Cleveland

Narrative

**Job Narrative
240-188864-1**

Receipt

The samples were received on 7/20/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.3°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Organic Prep

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Method Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CLE
Moisture	Percent Moisture	EPA	EET CLE
Part Size Red	Particle Size Reduction Preparation	None	EET CLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE
3050B	Preparation, Metals	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-188864-1	WGWC-20	Water	07/19/23 10:00	07/20/23 09:50
240-188864-2	WGWA-18	Water	07/19/23 10:00	07/20/23 09:50
240-188864-3	WGWC-28D-65-75	Solid	07/19/23 10:00	07/20/23 09:50
240-188864-4	WGWC-28D-30-40	Solid	07/19/23 10:00	07/20/23 09:50

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Detection Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Client Sample ID: WGWC-20

Lab Sample ID: 240-188864-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	8.8		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	140		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: WGWA-18

Lab Sample ID: 240-188864-2

No Detections.

Client Sample ID: WGWC-28D-65-75

Lab Sample ID: 240-188864-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.22	J F1	0.44	0.047	mg/Kg	1	*	6010D	Total/NA
Lithium	13	F1	4.4	0.93	mg/Kg	1	*	6010D	Total/NA
PSR sample generated	DONE			NONE		1		Part Size Red	Total/NA

Client Sample ID: WGWC-28D-30-40

Lab Sample ID: 240-188864-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.47	F1	0.40	0.044	mg/Kg	1	*	6010D	Total/NA
Lithium	5.7	F1	4.0	0.87	mg/Kg	1	*	6010D	Total/NA
PSR sample generated	DONE			NONE		1		Part Size Red	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Client Sample ID: WGWC-20

Lab Sample ID: 240-188864-1

Date Collected: 07/19/23 10:00

Matrix: Water

Date Received: 07/20/23 09:50

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	8.8		1.0	0.62	ug/L		07/21/23 14:00	07/25/23 12:14	1
Lithium	140		8.0	1.7	ug/L		07/21/23 14:00	07/25/23 12:14	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Client Sample ID: WGWA-18

Lab Sample ID: 240-188864-2

Date Collected: 07/19/23 10:00

Matrix: Water

Date Received: 07/20/23 09:50

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.62	U	1.0	0.62	ug/L		07/21/23 14:00	07/25/23 14:41	1
Lithium	1.7	U	8.0	1.7	ug/L		07/21/23 14:00	07/25/23 14:41	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Client Sample ID: WGWC-28D-65-75

Lab Sample ID: 240-188864-3

Date Collected: 07/19/23 10:00

Matrix: Solid

Date Received: 07/20/23 09:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	99.8		0.1	0.1	%			07/21/23 18:06	1
Percent Moisture (EPA Moisture)	0.2		0.1	0.1	%			07/21/23 18:06	1

Method: Part Size Red - Particle Size Reduction Preparation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PSR sample generated	DONE				NONE			07/21/23 07:07	1



Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Client Sample ID: WGWC-28D-65-75

Lab Sample ID: 240-188864-3

Date Collected: 07/19/23 10:00

Matrix: Solid

Date Received: 07/20/23 09:50

Percent Solids: 99.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.22	J F1	0.44	0.047	mg/Kg	✳	07/21/23 15:00	07/24/23 16:55	1
Lithium	13	F1	4.4	0.93	mg/Kg	✳	07/21/23 15:00	07/24/23 16:55	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Client Sample ID: WGWC-28D-30-40

Lab Sample ID: 240-188864-4

Date Collected: 07/19/23 10:00

Matrix: Solid

Date Received: 07/20/23 09:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	99.7		0.1	0.1	%			07/21/23 18:06	1
Percent Moisture (EPA Moisture)	0.3		0.1	0.1	%			07/21/23 18:06	1

Method: Part Size Red - Particle Size Reduction Preparation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PSR sample generated	DONE				NONE			07/21/23 07:07	1



Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Client Sample ID: WGWC-28D-30-40

Lab Sample ID: 240-188864-4

Date Collected: 07/19/23 10:00

Matrix: Solid

Date Received: 07/20/23 09:50

Percent Solids: 99.7

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.47	F1	0.40	0.044	mg/Kg	✳	07/21/23 15:00	07/24/23 17:16	1
Lithium	5.7	F1	4.0	0.87	mg/Kg	✳	07/21/23 15:00	07/24/23 17:16	1

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QC Sample Results

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-581470/1-A
Matrix: Solid
Analysis Batch: 581684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581470

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	0.054	U	0.50	0.054	mg/Kg		07/21/23 15:00	07/24/23 16:47	1
Lithium	1.1	U	5.0	1.1	mg/Kg		07/21/23 15:00	07/24/23 16:47	1

Lab Sample ID: LCS 240-581470/2-A
Matrix: Solid
Analysis Batch: 581684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581470

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Beryllium	100	97.6		mg/Kg		98	80 - 120
Lithium	100	94.4		mg/Kg		94	80 - 120

Lab Sample ID: 240-188864-3 MS
Matrix: Solid
Analysis Batch: 581684

Client Sample ID: WGWC-28D-65-75
Prep Type: Total/NA
Prep Batch: 581470

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Beryllium	0.22	J F1	91.9	68.4	F1	mg/Kg	⊛	74	75 - 125
Lithium	13	F1	91.9	79.7	F1	mg/Kg	⊛	72	75 - 125

Lab Sample ID: 240-188864-3 MSD
Matrix: Solid
Analysis Batch: 581684

Client Sample ID: WGWC-28D-65-75
Prep Type: Total/NA
Prep Batch: 581470

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Beryllium	0.22	J F1	91.9	64.8	F1	mg/Kg	⊛	70	75 - 125	5	20
Lithium	13	F1	91.9	74.2	F1	mg/Kg	⊛	66	75 - 125	7	20

Lab Sample ID: 240-188864-4 MS
Matrix: Solid
Analysis Batch: 581684

Client Sample ID: WGWC-28D-30-40
Prep Type: Total/NA
Prep Batch: 581470

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Beryllium	0.47	F1	85.0	62.1	F1	mg/Kg	⊛	73	75 - 125
Lithium	5.7	F1	85.0	64.5	F1	mg/Kg	⊛	69	75 - 125

Lab Sample ID: 240-188864-4 MSD
Matrix: Solid
Analysis Batch: 581684

Client Sample ID: WGWC-28D-30-40
Prep Type: Total/NA
Prep Batch: 581470

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Beryllium	0.47	F1	85.0	64.5	F1	mg/Kg	⊛	75	75 - 125	4	20
Lithium	5.7	F1	85.0	67.2	F1	mg/Kg	⊛	72	75 - 125	4	20

QC Sample Results

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-581449/1-A
Matrix: Water
Analysis Batch: 581788

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 581449

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	0.62	U	1.0	0.62	ug/L		07/21/23 14:00	07/25/23 12:09	1
Lithium	1.7	U	8.0	1.7	ug/L		07/21/23 14:00	07/25/23 12:09	1

Lab Sample ID: LCS 240-581449/2-A
Matrix: Water
Analysis Batch: 581788

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 581449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	500	515		ug/L		103	80 - 120

Lab Sample ID: 240-188864-1 MS
Matrix: Water
Analysis Batch: 581788

Client Sample ID: WGWC-20
Prep Type: Dissolved
Prep Batch: 581449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	140		500	568		ug/L		86	80 - 120

Lab Sample ID: 240-188864-1 MSD
Matrix: Water
Analysis Batch: 581788

Client Sample ID: WGWC-20
Prep Type: Dissolved
Prep Batch: 581449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
										RPD	Limit
Beryllium	8.8		500	484		ug/L		95	80 - 120	10	20
Lithium	140		500	634		ug/L		100	80 - 120	11	20

Lab Sample ID: 240-188864-2 MS
Matrix: Water
Analysis Batch: 581788

Client Sample ID: WGWA-18
Prep Type: Dissolved
Prep Batch: 581449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	1.7	U	500	517		ug/L		103	80 - 120

Lab Sample ID: 240-188864-2 MSD
Matrix: Water
Analysis Batch: 581788

Client Sample ID: WGWA-18
Prep Type: Dissolved
Prep Batch: 581449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
										RPD	Limit
Beryllium	0.62	U	500	481		ug/L		96	80 - 120	2	20
Lithium	1.7	U	500	501		ug/L		100	80 - 120	3	20

QC Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Method: Moisture - Percent Moisture

Lab Sample ID: 240-188864-3 DU

Matrix: Solid

Analysis Batch: 581464

Client Sample ID: WGWC-28D-65-75

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Percent Solids	99.8		99.8		%		0	20
Percent Moisture	0.2		0.2		%		3	20

Lab Sample ID: 240-188864-4 DU

Matrix: Solid

Analysis Batch: 581464

Client Sample ID: WGWC-28D-30-40

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Percent Solids	99.7		99.7		%		0	20
Percent Moisture	0.3		0.3		%		5	20

QC Association Summary

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Metals

Prep Batch: 581449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-188864-1	WGWC-20	Dissolved	Water	3005A	
240-188864-2	WGWA-18	Dissolved	Water	3005A	
MB 240-581449/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-581449/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-188864-1 MS	WGWC-20	Dissolved	Water	3005A	
240-188864-1 MSD	WGWC-20	Dissolved	Water	3005A	
240-188864-2 MS	WGWA-18	Dissolved	Water	3005A	
240-188864-2 MSD	WGWA-18	Dissolved	Water	3005A	

Prep Batch: 581470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-188864-3	WGWC-28D-65-75	Total/NA	Solid	3050B	
240-188864-4	WGWC-28D-30-40	Total/NA	Solid	3050B	
MB 240-581470/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 240-581470/2-A	Lab Control Sample	Total/NA	Solid	3050B	
240-188864-3 MS	WGWC-28D-65-75	Total/NA	Solid	3050B	
240-188864-3 MSD	WGWC-28D-65-75	Total/NA	Solid	3050B	
240-188864-4 MS	WGWC-28D-30-40	Total/NA	Solid	3050B	
240-188864-4 MSD	WGWC-28D-30-40	Total/NA	Solid	3050B	

Analysis Batch: 581684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-188864-3	WGWC-28D-65-75	Total/NA	Solid	6010D	581470
240-188864-4	WGWC-28D-30-40	Total/NA	Solid	6010D	581470
MB 240-581470/1-A	Method Blank	Total/NA	Solid	6010D	581470
LCS 240-581470/2-A	Lab Control Sample	Total/NA	Solid	6010D	581470
240-188864-3 MS	WGWC-28D-65-75	Total/NA	Solid	6010D	581470
240-188864-3 MSD	WGWC-28D-65-75	Total/NA	Solid	6010D	581470
240-188864-4 MS	WGWC-28D-30-40	Total/NA	Solid	6010D	581470
240-188864-4 MSD	WGWC-28D-30-40	Total/NA	Solid	6010D	581470

Analysis Batch: 581788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-188864-1	WGWC-20	Dissolved	Water	6020B	581449
240-188864-2	WGWA-18	Dissolved	Water	6020B	581449
MB 240-581449/1-A	Method Blank	Total Recoverable	Water	6020B	581449
LCS 240-581449/2-A	Lab Control Sample	Total Recoverable	Water	6020B	581449
240-188864-1 MS	WGWC-20	Dissolved	Water	6020B	581449
240-188864-1 MSD	WGWC-20	Dissolved	Water	6020B	581449
240-188864-2 MS	WGWA-18	Dissolved	Water	6020B	581449
240-188864-2 MSD	WGWA-18	Dissolved	Water	6020B	581449

General Chemistry

Analysis Batch: 581464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-188864-3	WGWC-28D-65-75	Total/NA	Solid	Moisture	
240-188864-4	WGWC-28D-30-40	Total/NA	Solid	Moisture	
240-188864-3 DU	WGWC-28D-65-75	Total/NA	Solid	Moisture	
240-188864-4 DU	WGWC-28D-30-40	Total/NA	Solid	Moisture	

QC Association Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Organic Prep

Analysis Batch: 581367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-188864-3	WGWC-28D-65-75	Total/NA	Solid	Part Size Red	
240-188864-4	WGWC-28D-30-40	Total/NA	Solid	Part Size Red	

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Lab Chronicle

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Client Sample ID: WGWC-20

Lab Sample ID: 240-188864-1

Date Collected: 07/19/23 10:00

Matrix: Water

Date Received: 07/20/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			581449	BN	EET CLE	07/21/23 14:00
Dissolved	Analysis	6020B		1	581788	AJC	EET CLE	07/25/23 12:14

Client Sample ID: WGWA-18

Lab Sample ID: 240-188864-2

Date Collected: 07/19/23 10:00

Matrix: Water

Date Received: 07/20/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			581449	BN	EET CLE	07/21/23 14:00
Dissolved	Analysis	6020B		1	581788	AJC	EET CLE	07/25/23 14:41

Client Sample ID: WGWC-28D-65-75

Lab Sample ID: 240-188864-3

Date Collected: 07/19/23 10:00

Matrix: Solid

Date Received: 07/20/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	581464	JWW	EET CLE	07/21/23 18:06
Total/NA	Analysis	Part Size Red		1	581367	POP	EET CLE	07/21/23 07:07

Client Sample ID: WGWC-28D-65-75

Lab Sample ID: 240-188864-3

Date Collected: 07/19/23 10:00

Matrix: Solid

Date Received: 07/20/23 09:50

Percent Solids: 99.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			581470	DEE	EET CLE	07/21/23 15:00
Total/NA	Analysis	6010D		1	581684	KLC	EET CLE	07/24/23 16:55

Client Sample ID: WGWC-28D-30-40

Lab Sample ID: 240-188864-4

Date Collected: 07/19/23 10:00

Matrix: Solid

Date Received: 07/20/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	581464	JWW	EET CLE	07/21/23 18:06
Total/NA	Analysis	Part Size Red		1	581367	POP	EET CLE	07/21/23 07:07

Client Sample ID: WGWC-28D-30-40

Lab Sample ID: 240-188864-4

Date Collected: 07/19/23 10:00

Matrix: Solid

Date Received: 07/20/23 09:50

Percent Solids: 99.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			581470	DEE	EET CLE	07/21/23 15:00
Total/NA	Analysis	6010D		1	581684	KLC	EET CLE	07/24/23 17:16

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-188864-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

5/16/23

Regulatory Program: DW NPDES RCRA Other:

Eurofins Environment Testing America

Client Contact
SIREM
180B Market Place Blvd
Knoxville TN 37922
865-330-0037 Phone
(xxx) xxx-xxxx FAX
Project Name: Plant Wansley Sorption
Site: Plant Wansley
P O # SIREMLABVS.02.01.8151

Regulatory Manager: Jacques Smith
Email: jsmith@siremlab.com
Tel/Fax: 865-236-2696

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below 5 days
 2 weeks
 1 week
 2 days
 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Total Metals - Be Li	Dissolved Metals - Be Li	Lab Contact:	Site Contact:	Date:	Carrier:	TALS Project #	Sampler SS	For Lab Use Only: Walk-in Client Lab Sampling	Job / SDG No.:	COC No	1 of 1 COCs
WGWC - 20	07-19-23	1000	G	W	1	Y	Y	X	X										
WGWA - 18	07-19-23	1000	G	W	1	Y	Y	X	X										
WGWC - 28D - 45 - 75	07-19-23	1000	G	S	1	Y	Y	X	X										
WGWC - 28D - 30 - 40	07-19-23	1000	G	S	1	Y	Y	X	X										



Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Poison B Skin Irritant Unknown

Special Instructions/QC Requirements & Comments:
Method 6010D
Li + Be analysis only

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Relinquished by:
Syrone Spinella *Syrone Spinella*
Relinquished by: *Syrone Spinella*
Relinquished by:

Custody Seal No.:
Company: SIREM
Date/Time: 07-19-23 1200

Received by:
Company: KETNC
Date/Time: 7-20-23 0950

Received in Laboratory by:
Company: *Syrone Spinella*
Date/Time: *7-20-23 0950*

Therm ID No.:
Cooler Temp. (°C) Obs'd: _____ Corr'd: _____



Eurofins – Cleveland Sample Receipt Form/Narrative Login #: 188864
Barberton Facility

Client Sirem Site Name _____ Cooler unpacked by: [Signature]
Cooler Received on 7-20-23 Opened on 7-20-23
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____


Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC 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 # 19 (CF +0.4 °C) Observed Cooler Temp. 5.9 °C Corrected Cooler Temp. 6.3 °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 (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC312502
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. 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)

20. 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: _____

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Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
WGWC-20	240-188864-A-1	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
WGWA-18	240-188864-A-2	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____

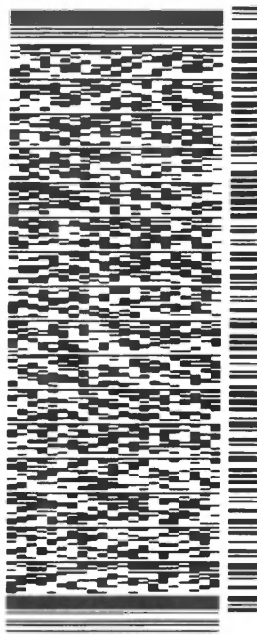
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ORIGIN ID: RKKWA (865) 330-0037
 JACOUES SMITH
 SIREM KNOXVILLE
 180B MARKET PLACE BLVD.
 KNOXVILLE TN 37922
 UNITED STATES US

SHIP DATE: 19JUL23
 ACTWGT: 8.00 LB
 CAD: 102598124INET4640
 BILL SENDER

TO EUROFINS TESTAMERICA
 EUROFINS TEST AMERICA
 180 SOUTH VAN BUREN AVE

BARBERTON OH 44203
 (330) 497-9396
 NAV 01 RFF SIREM/ABUS
 PO 02 DEPT 8151



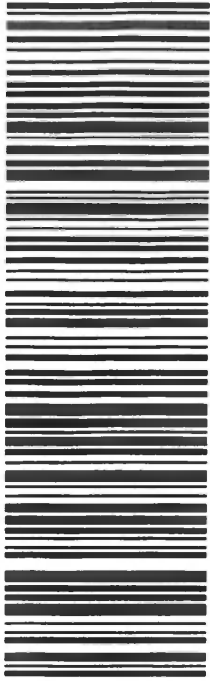
583J46AE49AE3

TRK# 7727 8648 6591
 0201

THU - 20 JUL 10:30A
 PRIORITY OVERNIGHT

NX CAKA

OH-US 44203
 CLE



After printing this label:

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2. Fold the printed page along the horizontal line.
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240-188864 Waybill



ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Jacques Smith
Sirem, div of Geosyntec Consultants
180A Market Place Blvd
Knoxville, Tennessee 37922

Generated 8/15/2023 8:57:42 AM

JOB DESCRIPTION

Plant Wansley Sorption

JOB NUMBER

240-189844-1

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Roxanne Cisneros Generated
8/15/2023 8:57:42 AM

Authorized for release by
Roxanne Cisneros, Senior Project Manager
roxanne.cisneros@et.eurofinsus.com
(615)301-5761



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Definitions/Glossary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-189844-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-189844-1

Job ID: 240-189844-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative
240-189844-1

Receipt

The samples were received on 8/9/2023 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Method Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-189844-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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Sample Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-189844-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-189844-1	40-CTRL-1a	Water	08/07/23 12:00	08/09/23 09:30
240-189844-2	40-CTRL-2a	Water	08/07/23 12:00	08/09/23 09:30
240-189844-3	75-CTRL-1a	Water	08/07/23 12:00	08/09/23 09:30
240-189844-4	75-CTRL-2a	Water	08/07/23 12:00	08/09/23 09:30

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Detection Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-189844-1

Client Sample ID: 40-CTRL-1a

Lab Sample ID: 240-189844-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	20		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	280		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-CTRL-2a

Lab Sample ID: 240-189844-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	20		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	290		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75-CTRL-1a

Lab Sample ID: 240-189844-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	20		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	290		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75-CTRL-2a

Lab Sample ID: 240-189844-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	20		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	300		8.0	1.7	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-189844-1

Client Sample ID: 40-CTRL-1a

Lab Sample ID: 240-189844-1

Date Collected: 08/07/23 12:00

Matrix: Water

Date Received: 08/09/23 09:30

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	20		1.0	0.62	ug/L		08/10/23 14:00	08/11/23 12:13	1
Lithium	280		8.0	1.7	ug/L		08/10/23 14:00	08/11/23 12:13	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-189844-1

Client Sample ID: 40-CTRL-2a

Lab Sample ID: 240-189844-2

Date Collected: 08/07/23 12:00

Matrix: Water

Date Received: 08/09/23 09:30

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	20		1.0	0.62	ug/L		08/10/23 14:00	08/11/23 14:01	1
Lithium	290		8.0	1.7	ug/L		08/10/23 14:00	08/11/23 14:01	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-189844-1

Client Sample ID: 75-CTRL-1a

Lab Sample ID: 240-189844-3

Date Collected: 08/07/23 12:00

Matrix: Water

Date Received: 08/09/23 09:30

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	20		1.0	0.62	ug/L		08/10/23 14:00	08/11/23 13:27	1
Lithium	290		8.0	1.7	ug/L		08/10/23 14:00	08/11/23 13:27	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-189844-1

Client Sample ID: 75-CTRL-2a

Lab Sample ID: 240-189844-4

Date Collected: 08/07/23 12:00

Matrix: Water

Date Received: 08/09/23 09:30

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	20		1.0	0.62	ug/L		08/10/23 14:00	08/11/23 14:04	1
Lithium	300		8.0	1.7	ug/L		08/10/23 14:00	08/11/23 14:04	1

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- 10
- 11
- 12
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QC Sample Results

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley Sorption

Job ID: 240-189844-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-583538/1-A
Matrix: Water
Analysis Batch: 583676

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 583538

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	0.62	U	1.0	0.62	ug/L		08/10/23 14:00	08/11/23 12:08	1
Lithium	1.7	U	8.0	1.7	ug/L		08/10/23 14:00	08/11/23 12:08	1

Lab Sample ID: LCS 240-583538/2-A
Matrix: Water
Analysis Batch: 583676

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 583538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	500	495		ug/L		99	80 - 120

Lab Sample ID: 240-189844-1 MS
Matrix: Water
Analysis Batch: 583676

Client Sample ID: 40-CTRL-1a
Prep Type: Dissolved
Prep Batch: 583538

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	280		500	765		ug/L		97	80 - 120

Lab Sample ID: 240-189844-1 MSD
Matrix: Water
Analysis Batch: 583676

Client Sample ID: 40-CTRL-1a
Prep Type: Dissolved
Prep Batch: 583538

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Lithium	280		500	787		ug/L		101	80 - 120	3	20

Lab Sample ID: 240-189844-3 MS
Matrix: Water
Analysis Batch: 583676

Client Sample ID: 75-CTRL-1a
Prep Type: Dissolved
Prep Batch: 583538

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	290		500	796		ug/L		101	80 - 120

Lab Sample ID: 240-189844-3 MSD
Matrix: Water
Analysis Batch: 583676

Client Sample ID: 75-CTRL-1a
Prep Type: Dissolved
Prep Batch: 583538

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Lithium	290		500	797		ug/L		102	80 - 120	0	20

QC Association Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-189844-1

Metals

Prep Batch: 583538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189844-1	40-CTRL-1a	Dissolved	Water	3005A	
240-189844-2	40-CTRL-2a	Dissolved	Water	3005A	
240-189844-3	75-CTRL-1a	Dissolved	Water	3005A	
240-189844-4	75-CTRL-2a	Dissolved	Water	3005A	
MB 240-583538/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-583538/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-189844-1 MS	40-CTRL-1a	Dissolved	Water	3005A	
240-189844-1 MSD	40-CTRL-1a	Dissolved	Water	3005A	
240-189844-3 MS	75-CTRL-1a	Dissolved	Water	3005A	
240-189844-3 MSD	75-CTRL-1a	Dissolved	Water	3005A	

Analysis Batch: 583676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189844-1	40-CTRL-1a	Dissolved	Water	6020B	583538
240-189844-2	40-CTRL-2a	Dissolved	Water	6020B	583538
240-189844-3	75-CTRL-1a	Dissolved	Water	6020B	583538
240-189844-4	75-CTRL-2a	Dissolved	Water	6020B	583538
MB 240-583538/1-A	Method Blank	Total Recoverable	Water	6020B	583538
LCS 240-583538/2-A	Lab Control Sample	Total Recoverable	Water	6020B	583538
240-189844-1 MS	40-CTRL-1a	Dissolved	Water	6020B	583538
240-189844-1 MSD	40-CTRL-1a	Dissolved	Water	6020B	583538
240-189844-3 MS	75-CTRL-1a	Dissolved	Water	6020B	583538
240-189844-3 MSD	75-CTRL-1a	Dissolved	Water	6020B	583538

Lab Chronicle

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-189844-1

Client Sample ID: 40-CTRL-1a

Lab Sample ID: 240-189844-1

Date Collected: 08/07/23 12:00

Matrix: Water

Date Received: 08/09/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			583538	BN	EET CLE	08/10/23 14:00
Dissolved	Analysis	6020B		1	583676	DSH	EET CLE	08/11/23 12:13

Client Sample ID: 40-CTRL-2a

Lab Sample ID: 240-189844-2

Date Collected: 08/07/23 12:00

Matrix: Water

Date Received: 08/09/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			583538	BN	EET CLE	08/10/23 14:00
Dissolved	Analysis	6020B		1	583676	DSH	EET CLE	08/11/23 14:01

Client Sample ID: 75-CTRL-1a

Lab Sample ID: 240-189844-3

Date Collected: 08/07/23 12:00

Matrix: Water

Date Received: 08/09/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			583538	BN	EET CLE	08/10/23 14:00
Dissolved	Analysis	6020B		1	583676	DSH	EET CLE	08/11/23 13:27

Client Sample ID: 75-CTRL-2a

Lab Sample ID: 240-189844-4

Date Collected: 08/07/23 12:00

Matrix: Water

Date Received: 08/09/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			583538	BN	EET CLE	08/10/23 14:00
Dissolved	Analysis	6020B		1	583676	DSH	EET CLE	08/11/23 14:04

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley Sorption

Job ID: 240-189844-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins - Cleveland Sample Receipt Form/Narrative
Barberton Facility

Login # : _____

Client SIREM Site Name _____
Cooler Received on 8-9-23 Opened on 8-9-23
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other

Cooler unpacked by:

Snipe

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # BC Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Water Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form

IR GUN # 21 (CF 0.2 °C) Observed Cooler Temp. 3.4 °C Corrected Cooler Temp. 3.2 °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1
 - 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 NA
 - 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 (ID/Date/Time) be reconciled with the COC? Yes No
- 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
- 10. Were correct bottle(s) used for the test(s) indicated? Yes No
- 11. Sufficient quantity received to perform indicated analyses? Yes No
- 12. Are these work share samples and all listed on the COC? Yes No
- If yes, Questions 13-17 have been checked at the originating laboratory.
- 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA
- 14. Were VOAs on the COC? Yes No NA
- 15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
- 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
- 17. 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

pH Strip Lot# 10BDH4321
H312502

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by:

19. 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)

20. 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: _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
40-CTRL-1A	240-189844-A-1	Plastic 250ml - w/nitric - dis	<2	_____	_____	_____
40-CTRL-2A	240-189844-A-2	Plastic 250ml - w/nitric - dis	<2	_____	_____	_____
75-CTRL-1A	240-189844-A-3	Plastic 250ml - w/nitric - dis	<2	_____	_____	_____
75-CTRL-2A	240-189844-A-4	Plastic 250ml - w/nitric - dis	<2	_____	_____	_____



ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Jacques Smith
Sirem, div of Geosyntec Consultants
180A Market Place Blvd
Knoxville, Tennessee 37922

Generated 8/21/2023 8:53:15 PM

JOB DESCRIPTION

Plant Wansley

JOB NUMBER

240-190147-1

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Roxanne Cisneros

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8/21/2023 8:53:15 PM

Authorized for release by
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(615)301-5761



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Definitions/Glossary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Qualifiers

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.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Job ID: 240-190147-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative
240-190147-1

Receipt

The samples were received on 8/15/2023 10:00 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 time was 4.0°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Method Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396



Sample Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-190147-1	40-CTRL 1B	Water	08/14/23 12:00	08/15/23 10:00
240-190147-2	40-CTRL 2B	Water	08/14/23 12:00	08/15/23 10:00
240-190147-3	40-R1A	Water	08/14/23 12:00	08/15/23 10:00
240-190147-4	40-R1B	Water	08/14/23 12:00	08/15/23 10:00
240-190147-5	40-R2A	Water	08/14/23 12:00	08/15/23 10:00
240-190147-6	40-R2B	Water	08/14/23 12:00	08/15/23 10:00
240-190147-7	40-R3A	Water	08/14/23 12:00	08/15/23 10:00
240-190147-8	40-R3B	Water	08/14/23 12:00	08/15/23 10:00
240-190147-9	40-R4A	Water	08/14/23 12:00	08/15/23 10:00
240-190147-10	40-R4B	Water	08/14/23 12:00	08/15/23 10:00
240-190147-11	40-R5A	Water	08/14/23 12:00	08/15/23 10:00
240-190147-12	40-R5B	Water	08/14/23 12:00	08/15/23 10:00
240-190147-13	75 -CTRL 1B	Water	08/14/23 12:00	08/15/23 10:00
240-190147-14	75 -CTRL 2B	Water	08/14/23 12:00	08/15/23 10:00
240-190147-15	75 -R1A	Water	08/14/23 12:00	08/15/23 10:00
240-190147-16	75 -R1B	Water	08/14/23 12:00	08/15/23 10:00
240-190147-17	75 -R2A	Water	08/14/23 12:00	08/15/23 10:00
240-190147-18	75 -R2B	Water	08/14/23 12:00	08/15/23 10:00
240-190147-19	75 -R3A	Water	08/14/23 12:00	08/15/23 10:00
240-190147-20	75 -R3B	Water	08/14/23 12:00	08/15/23 10:00
240-190147-21	75 -R4A	Water	08/14/23 12:00	08/15/23 10:00
240-190147-22	75 -R4B	Water	08/14/23 12:00	08/15/23 10:00
240-190147-23	75 -R5A	Water	08/14/23 12:00	08/15/23 10:00
240-190147-24	75 -R5B	Water	08/14/23 12:00	08/15/23 10:00



Detection Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-CTRL 1B

Lab Sample ID: 240-190147-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	20		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	290		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-CTRL 2B

Lab Sample ID: 240-190147-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	20		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	290		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-R1A

Lab Sample ID: 240-190147-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	2.3		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	290		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-R1B

Lab Sample ID: 240-190147-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	2.1		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	310		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-R2A

Lab Sample ID: 240-190147-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	4.8		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	300		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-R2B

Lab Sample ID: 240-190147-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	1.4		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	320		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-R3A

Lab Sample ID: 240-190147-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	3.4		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	290		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-R3B

Lab Sample ID: 240-190147-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	6.1		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	290		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-R4A

Lab Sample ID: 240-190147-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	14		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	310		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-R4B

Lab Sample ID: 240-190147-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	10		1.0	0.62	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-R4B (Continued)

Lab Sample ID: 240-190147-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	300		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-R5A

Lab Sample ID: 240-190147-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	2.5		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	300		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-R5B

Lab Sample ID: 240-190147-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	7.8		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	290		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75 -CTRL 1B

Lab Sample ID: 240-190147-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	20		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	300		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75 -CTRL 2B

Lab Sample ID: 240-190147-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	20		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	290		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75 -R1A

Lab Sample ID: 240-190147-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	1.2		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	300		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75 -R1B

Lab Sample ID: 240-190147-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	1.3		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	270		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75 -R2A

Lab Sample ID: 240-190147-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	290		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75 -R2B

Lab Sample ID: 240-190147-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.91	J	1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	290		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75 -R3A

Lab Sample ID: 240-190147-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	6.5		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	300		8.0	1.7	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 75 -R3B

Lab Sample ID: 240-190147-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	280		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75 -R4A

Lab Sample ID: 240-190147-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	300		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75 -R4B

Lab Sample ID: 240-190147-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	310		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75 -R5A

Lab Sample ID: 240-190147-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	16		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	300		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75 -R5B

Lab Sample ID: 240-190147-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	16		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	300		8.0	1.7	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-CTRL 1B

Lab Sample ID: 240-190147-1

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	20		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 15:05	1
Lithium	290		8.0	1.7	ug/L		08/16/23 14:00	08/18/23 12:47	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-CTRL 2B

Lab Sample ID: 240-190147-2

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	20		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 15:28	1
Lithium	290		8.0	1.7	ug/L		08/16/23 14:00	08/18/23 13:10	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-R1A

Lab Sample ID: 240-190147-3

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	2.3		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 15:42	1
Lithium	290		8.0	1.7	ug/L		08/16/23 14:00	08/18/23 13:14	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-R1B

Lab Sample ID: 240-190147-4

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	2.1		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 16:04	1
Lithium	310		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 16:04	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-R2A

Lab Sample ID: 240-190147-5

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	4.8		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 16:09	1
Lithium	300		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 16:09	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-R2B

Lab Sample ID: 240-190147-6

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	1.4		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 16:13	1
Lithium	320		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 16:13	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-R3A

Lab Sample ID: 240-190147-7

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	3.4		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 16:18	1
Lithium	290		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 16:18	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-R3B

Lab Sample ID: 240-190147-8

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	6.1		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 16:22	1
Lithium	290		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 16:22	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-R4A

Lab Sample ID: 240-190147-9

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	14		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 16:27	1
Lithium	310		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 16:27	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-R4B

Lab Sample ID: 240-190147-10

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	10		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 16:31	1
Lithium	300		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 16:31	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-R5A

Lab Sample ID: 240-190147-11

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	2.5		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 16:36	1
Lithium	300		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 16:36	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-R5B

Lab Sample ID: 240-190147-12

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	7.8		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 16:40	1
Lithium	290		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 16:40	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 75 -CTRL 1B

Lab Sample ID: 240-190147-13

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	20		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 16:45	1
Lithium	300		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 16:45	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 75 -CTRL 2B

Lab Sample ID: 240-190147-14

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	20		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 16:59	1
Lithium	290		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 16:59	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 75 -R1A

Lab Sample ID: 240-190147-15

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	1.2		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 17:03	1
Lithium	300		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 17:03	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 75 -R1B

Lab Sample ID: 240-190147-16

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	1.3		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 17:08	1
Lithium	270		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 17:08	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 75 -R2A

Lab Sample ID: 240-190147-17

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.62	U	1.0	0.62	ug/L		08/16/23 14:00	08/17/23 17:12	1
Lithium	290		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 17:12	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 75 -R2B

Lab Sample ID: 240-190147-18

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.91	J	1.0	0.62	ug/L		08/16/23 14:00	08/17/23 17:17	1
Lithium	290		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 17:17	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 75 -R3A

Lab Sample ID: 240-190147-19

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	6.5		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 17:21	1
Lithium	300		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 17:21	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 75 -R3B

Lab Sample ID: 240-190147-20

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.62	U	1.0	0.62	ug/L		08/16/23 14:00	08/17/23 17:26	1
Lithium	280		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 17:26	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 75 -R4A

Lab Sample ID: 240-190147-21

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.62	U	1.0	0.62	ug/L		08/16/23 14:00	08/17/23 14:20	1
Lithium	300		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 14:20	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 75 -R4B

Lab Sample ID: 240-190147-22

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.62	U	1.0	0.62	ug/L		08/16/23 14:00	08/17/23 14:24	1
Lithium	310		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 14:24	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 75 -R5A

Lab Sample ID: 240-190147-23

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	16		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 14:29	1
Lithium	300		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 14:29	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 75 -R5B

Lab Sample ID: 240-190147-24

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	16		1.0	0.62	ug/L		08/16/23 14:00	08/17/23 14:33	1
Lithium	300		8.0	1.7	ug/L		08/16/23 14:00	08/17/23 14:33	1

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QC Sample Results

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-190147-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-584083/1-A
Matrix: Water
Analysis Batch: 584254

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 584083

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	0.62	U	1.0	0.62	ug/L		08/16/23 14:00	08/17/23 14:56	1
Lithium	1.7	U ^+	8.0	1.7	ug/L		08/16/23 14:00	08/17/23 14:56	1

Lab Sample ID: LCS 240-584083/2-A
Matrix: Water
Analysis Batch: 584254

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 584083

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	500	537	^+	ug/L		107	80 - 120

Lab Sample ID: MB 240-584110/1-A
Matrix: Water
Analysis Batch: 584254

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 584110

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	0.62	U	1.0	0.62	ug/L		08/16/23 14:00	08/17/23 12:26	1
Lithium	1.7	U	8.0	1.7	ug/L		08/16/23 14:00	08/17/23 12:26	1

Lab Sample ID: LCS 240-584110/2-A
Matrix: Water
Analysis Batch: 584254

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 584110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	500	509		ug/L		102	80 - 120

Lab Sample ID: 240-190147-1 MS
Matrix: Water
Analysis Batch: 584254

Client Sample ID: 40-CTRL 1B
Prep Type: Dissolved
Prep Batch: 584083

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: 240-190147-1 MS
Matrix: Water
Analysis Batch: 584514

Client Sample ID: 40-CTRL 1B
Prep Type: Dissolved
Prep Batch: 584083

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: 240-190147-1 MSD
Matrix: Water
Analysis Batch: 584254

Client Sample ID: 40-CTRL 1B
Prep Type: Dissolved
Prep Batch: 584083

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit

QC Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-190147-1 MSD

Matrix: Water

Analysis Batch: 584514

Client Sample ID: 40-CTRL 1B

Prep Type: Dissolved

Prep Batch: 584083

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	290		500	818		ug/L		105	80 - 120	5	20

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QC Association Summary

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-190147-1

Metals

Prep Batch: 584083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190147-1	40-CTRL 1B	Dissolved	Water	3005A	
240-190147-2	40-CTRL 2B	Dissolved	Water	3005A	
240-190147-3	40-R1A	Dissolved	Water	3005A	
240-190147-4	40-R1B	Dissolved	Water	3005A	
240-190147-5	40-R2A	Dissolved	Water	3005A	
240-190147-6	40-R2B	Dissolved	Water	3005A	
240-190147-7	40-R3A	Dissolved	Water	3005A	
240-190147-8	40-R3B	Dissolved	Water	3005A	
240-190147-9	40-R4A	Dissolved	Water	3005A	
240-190147-10	40-R4B	Dissolved	Water	3005A	
240-190147-11	40-R5A	Dissolved	Water	3005A	
240-190147-12	40-R5B	Dissolved	Water	3005A	
240-190147-13	75 -CTRL 1B	Dissolved	Water	3005A	
240-190147-14	75 -CTRL 2B	Dissolved	Water	3005A	
240-190147-15	75 -R1A	Dissolved	Water	3005A	
240-190147-16	75 -R1B	Dissolved	Water	3005A	
240-190147-17	75 -R2A	Dissolved	Water	3005A	
240-190147-18	75 -R2B	Dissolved	Water	3005A	
240-190147-19	75 -R3A	Dissolved	Water	3005A	
240-190147-20	75 -R3B	Dissolved	Water	3005A	
MB 240-584083/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-584083/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-190147-1 MS	40-CTRL 1B	Dissolved	Water	3005A	
240-190147-1 MSD	40-CTRL 1B	Dissolved	Water	3005A	

Prep Batch: 584110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190147-21	75 -R4A	Dissolved	Water	3005A	
240-190147-22	75 -R4B	Dissolved	Water	3005A	
240-190147-23	75 -R5A	Dissolved	Water	3005A	
240-190147-24	75 -R5B	Dissolved	Water	3005A	
MB 240-584110/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-584110/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 584254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190147-1	40-CTRL 1B	Dissolved	Water	6020B	584083
240-190147-2	40-CTRL 2B	Dissolved	Water	6020B	584083
240-190147-3	40-R1A	Dissolved	Water	6020B	584083
240-190147-4	40-R1B	Dissolved	Water	6020B	584083
240-190147-5	40-R2A	Dissolved	Water	6020B	584083
240-190147-6	40-R2B	Dissolved	Water	6020B	584083
240-190147-7	40-R3A	Dissolved	Water	6020B	584083
240-190147-8	40-R3B	Dissolved	Water	6020B	584083
240-190147-9	40-R4A	Dissolved	Water	6020B	584083
240-190147-10	40-R4B	Dissolved	Water	6020B	584083
240-190147-11	40-R5A	Dissolved	Water	6020B	584083
240-190147-12	40-R5B	Dissolved	Water	6020B	584083
240-190147-13	75 -CTRL 1B	Dissolved	Water	6020B	584083
240-190147-14	75 -CTRL 2B	Dissolved	Water	6020B	584083
240-190147-15	75 -R1A	Dissolved	Water	6020B	584083

Eurofins Cleveland



QC Association Summary

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-190147-1

Metals (Continued)

Analysis Batch: 584254 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190147-16	75 -R1B	Dissolved	Water	6020B	584083
240-190147-17	75 -R2A	Dissolved	Water	6020B	584083
240-190147-18	75 -R2B	Dissolved	Water	6020B	584083
240-190147-19	75 -R3A	Dissolved	Water	6020B	584083
240-190147-20	75 -R3B	Dissolved	Water	6020B	584083
240-190147-21	75 -R4A	Dissolved	Water	6020B	584110
240-190147-22	75 -R4B	Dissolved	Water	6020B	584110
240-190147-23	75 -R5A	Dissolved	Water	6020B	584110
240-190147-24	75 -R5B	Dissolved	Water	6020B	584110
MB 240-584083/1-A	Method Blank	Total Recoverable	Water	6020B	584083
MB 240-584110/1-A	Method Blank	Total Recoverable	Water	6020B	584110
LCS 240-584083/2-A	Lab Control Sample	Total Recoverable	Water	6020B	584083
LCS 240-584110/2-A	Lab Control Sample	Total Recoverable	Water	6020B	584110
240-190147-1 MS	40-CTRL 1B	Dissolved	Water	6020B	584083
240-190147-1 MSD	40-CTRL 1B	Dissolved	Water	6020B	584083

Analysis Batch: 584514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190147-1	40-CTRL 1B	Dissolved	Water	6020B	584083
240-190147-2	40-CTRL 2B	Dissolved	Water	6020B	584083
240-190147-3	40-R1A	Dissolved	Water	6020B	584083
240-190147-1 MS	40-CTRL 1B	Dissolved	Water	6020B	584083
240-190147-1 MSD	40-CTRL 1B	Dissolved	Water	6020B	584083



Lab Chronicle

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-CTRL 1B

Lab Sample ID: 240-190147-1

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 15:05
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584514	DSH	EET CLE	08/18/23 12:47

Client Sample ID: 40-CTRL 2B

Lab Sample ID: 240-190147-2

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 15:28
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584514	DSH	EET CLE	08/18/23 13:10

Client Sample ID: 40-R1A

Lab Sample ID: 240-190147-3

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 15:42
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584514	DSH	EET CLE	08/18/23 13:14

Client Sample ID: 40-R1B

Lab Sample ID: 240-190147-4

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 16:04

Client Sample ID: 40-R2A

Lab Sample ID: 240-190147-5

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 16:09

Lab Chronicle

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-R2B

Lab Sample ID: 240-190147-6

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 16:13

Client Sample ID: 40-R3A

Lab Sample ID: 240-190147-7

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 16:18

Client Sample ID: 40-R3B

Lab Sample ID: 240-190147-8

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 16:22

Client Sample ID: 40-R4A

Lab Sample ID: 240-190147-9

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 16:27

Client Sample ID: 40-R4B

Lab Sample ID: 240-190147-10

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 16:31

Client Sample ID: 40-R5A

Lab Sample ID: 240-190147-11

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 16:36

Lab Chronicle

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 40-R5B

Lab Sample ID: 240-190147-12

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 16:40

Client Sample ID: 75 -CTRL 1B

Lab Sample ID: 240-190147-13

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 16:45

Client Sample ID: 75 -CTRL 2B

Lab Sample ID: 240-190147-14

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 16:59

Client Sample ID: 75 -R1A

Lab Sample ID: 240-190147-15

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 17:03

Client Sample ID: 75 -R1B

Lab Sample ID: 240-190147-16

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 17:08

Client Sample ID: 75 -R2A

Lab Sample ID: 240-190147-17

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 17:12

Lab Chronicle

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 75 -R2B

Lab Sample ID: 240-190147-18

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 17:17

Client Sample ID: 75 -R3A

Lab Sample ID: 240-190147-19

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 17:21

Client Sample ID: 75 -R3B

Lab Sample ID: 240-190147-20

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584083	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 17:26

Client Sample ID: 75 -R4A

Lab Sample ID: 240-190147-21

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584110	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 14:20

Client Sample ID: 75 -R4B

Lab Sample ID: 240-190147-22

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584110	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 14:24

Client Sample ID: 75 -R5A

Lab Sample ID: 240-190147-23

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584110	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 14:29

Lab Chronicle

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-190147-1

Client Sample ID: 75 -R5B

Lab Sample ID: 240-190147-24

Date Collected: 08/14/23 12:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			584110	BN	EET CLE	08/16/23 14:00
Dissolved	Analysis	6020B		1	584254	DSH	EET CLE	08/17/23 14:33

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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Accreditation/Certification Summary

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-190147-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Chain of Custody Record

4.2/4.0

Client Information		Sampler: SS		Lab PM: Cisneros, Roxanne		Carrier Tracking No(s): 240-110811-39502.4	
Client Contact: Sydne Spinella		Phone:		E-Mail: roxanne.cisneros@et.eurofins.com		State of Origin:	
Company: Sirem, div of Geosyntec Consultants		PWSID:		Analysis Requested:		Job #: 240-190147 Chain of Custody	
Address: 180A Market Place Blvd		Due Date Requested:		Barcode:		Preservation Codes:	
City: Knoxville		TAT Requested (days): Standard		6020B - Dissolved Be & Li (FF)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
State, Zip: TN, 37922		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Field Filtered Sample (Yes or No)		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Phone: 865-330-0037(Tel)		PO #: 2.01.8151		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
Email: Sydne.Spinella@Siremlab.com		WO #: 24028249		Total Number of Containers			
Project Name: Water / Soil Testing		Project #: 24028249					
Site: Plant Wansley		SSOW#:					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers
40-CTRL 1b	08-14-23	1200	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
40-CTRL 2b	08-14-23	1206	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
40-R1a	08-14-23	1200	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
40-R1b	08-14-23	1200	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
40-R2a	08-14-23	1206	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
40-R2b	08-14-23	1200	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
40-R3a	08-14-23	1206	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
40-R3b	08-14-23	1200	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
40-R4a	08-14-23	1200	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
40-R4b	08-14-23	1200	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
40-R6a	08-14-23	1200	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)							
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months							
Special Instructions/QC Requirements: Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____ Relinquished by: Sydne Spinella Date/Time: 08-14-23 1500 Company: SIREM Relinquished by: Sydne Spinella Date/Time: 8-15-23 1000 Company: PEC Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____							

Chain of Custody Record

Eurofins Cleveland
 180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

Client Information		Lab PM: Cisneros, Roxanne	Carrier Tracking No(s):	COC No: 240-110811-39502.4
Client Contact: Sydne Spinella		E-Mail: roxanne.cisneros@et.eurofins.com	State of Origin:	Page 4 of 5
Company: Sirem, div of Geosyntec Consultants		PWSID:	Job #:	
Address: 180A Market Place Blvd		Analysis Requested		
City: Knoxville		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:		
State, Zip: TN, 37922		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
Phone: 865-330-0037(Tel)		Total Number of Containers		
WO #: 2.01.8151		Special Instructions/Note:		
Project #: 24028249		Form MSMSD (Yes or No)		
SSOW#: <i>Plant Wansley</i>		Field Filtered Sample (Yes or No)		
Site: <i>Plant Wansley</i>		60208 - Dissolved Be & Li (FF)		
Due Date Requested:		D		
TAT Requested (days): <i>Standard</i>		X		
Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		X		
PO #:		X		
WO #:		X		
Project #:		X		
SSOW#:		X		
Sample Date		Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil/oil)
40-R5b		08-14-23 1200	G	Water
75-CTRL 2b		08-14-23 1200	G	Water
75-CTRL 2b		08-14-23 1200	G	Water
75-R2A		08-14-23 1200	G	Water
75-R1b		08-14-23 1200	G	Water
75-R2a		08-14-23 1200	G	Water
75-R2b		08-14-23 1200	G	Water
75-R3a		08-14-23 1200	G	Water
75-R3b		08-14-23 1200	G	Water
75-R4a		08-14-23 1200	G	Water
75-R4b		08-14-23 1200	G	Water
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				
Deliverable Requested: I, II, III, IV, Other (specify)				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Special Instructions/QC Requirements:				
Method of Shipment:				
Date/Time: 08-14-23 1500		Received by: <i>[Signature]</i>		
Date/Time: 08-14-23 1500		Company: SIREM		
Date/Time:		Company:		
Date/Time:		Company:		
Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		



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Eurofins - Cleveland Sample Receipt Form/Narrative Login # : _____
Barberton Facility

Client Sirem, div of Geasinte Consultants Site Name _____ Cooler unpacked by: _____
 Cooler Received on 8-15-23 Opened on 8-15-23
 FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC 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 # 21 (CF _____ °C) Observed Cooler Temp. 4.2 °C Corrected Cooler Temp. 4.0 °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 (ID/Date/Time) be reconciled with the COC? Yes No
 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
 10. Were correct bottle(s) used for the test(s) indicated? Yes No
 11. Sufficient quantity received to perform indicated analyses? Yes No
 12. Are these work share samples and all listed on the COC? Yes No
 If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC312502
 14. Were VOAs on the COC? Yes No
 15. Were air bubbles >6 mm in any VOA vials? Yes Larger than this. Yes No NA
 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
 17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. 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)

20. 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: _____

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container		Preservative	
			pH	Temp	Added (mls)	Lot #
40-CTRL 1B	240-190147-A-1	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40-CTRL 2B	240-190147-A-2	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40-R1A	240-190147-A-3	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40-R1B	240-190147-A-4	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40-R2A	240-190147-A-5	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40-R2B	240-190147-A-6	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40-R3A	240-190147-A-7	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40-R3B	240-190147-A-8	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40-R4A	240-190147-A-9	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40-R4B	240-190147-A-10	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40-R5A	240-190147-A-11	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40-R5B	240-190147-A-12	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75 -CTRL 1B	240-190147-A-13	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75 -CTRL 2B	240-190147-A-14	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75 -R1A	240-190147-A-15	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75 -R1B	240-190147-A-16	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75 -R2A	240-190147-A-17	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75 -R2B	240-190147-A-18	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75 -R3A	240-190147-A-19	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75 -R3B	240-190147-A-20	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75 -R4A	240-190147-A-21	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75 -R4B	240-190147-A-22	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75 -R5A	240-190147-A-23	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75 -R5B	240-190147-A-24	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____





Environment Testing
TestAmerica

Part # 169470-434 NTW/ EAT/ 03/24

RI 164 6 10:30 A
1/25 08/15

ORIGIN: ID: CARA (865) 330-0037
SYBNE SPINELLA
STREH DIV OF GEOSYNTEC CONSULTANTS
280 MARKET PLACE BLVD

SHIP DATE: 04AUG23
ACTWT: 10.00 LB MAN
CAD: 0562065/CAFE3709

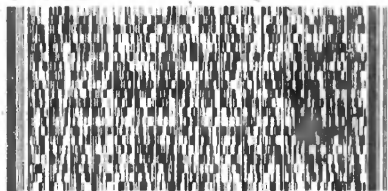
ADDRESS: TN-37022
UNITED STATES US

10 LANGE HERSHMAN
EUROFINS TESTAMERICA BARBERTON
180 S VAN BUREN

BARBERTON OH 44203

(330) 312-0176
REF: S240-110811

RMA: 111111



FedEx
Express



240-190147 Waybill

RETURNS MON-SAT
PRIORITY OVERNIGHT

TRK# 0221 6549 1091 1725

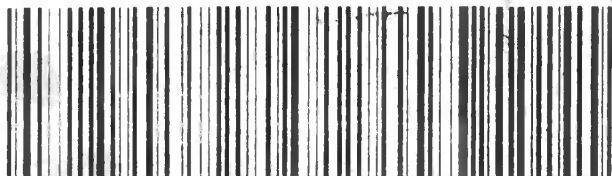


TRK# 0221 6549 1091 1725

TUE - 15 AUG AA
PRIORITY OVERNIGHT

NX CAKA

44203
OH-US
CLE



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ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Jacques Smith
Sirem, div of Geosyntec Consultants
180A Market Place Blvd
Knoxville, Tennessee 37922

Generated 10/11/2023 8:58:29 PM

JOB DESCRIPTION

Plant Wansley

JOB NUMBER

240-193069-1

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Roxanne Cisneros

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10/11/2023 8:58:29 PM

Authorized for release by
Roxanne Cisneros, Senior Project Manager
roxanne.cisneros@et.eurofinsus.com
(615)301-5761



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Definitions/Glossary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

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.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Job ID: 240-193069-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-193069-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/6/2023 10:00 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 time was 3.7°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Method Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396



Sample Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-193069-1	40D-CTRL1	Water	09/28/23 12:00	10/06/23 10:00
240-193069-2	40D-CTRL2	Water	09/28/23 12:00	10/06/23 10:00
240-193069-3	75D-CTRL1	Water	09/28/23 12:00	10/06/23 10:00
240-193069-4	75D-CTRL2	Water	09/28/23 12:00	10/06/23 10:00
240-193069-5	40D-CTRL3	Water	10/05/23 12:00	10/06/23 10:00
240-193069-6	40D-CTRL4	Water	10/05/23 12:00	10/06/23 10:00
240-193069-7	75D-CTRL3	Water	10/05/23 12:00	10/06/23 10:00
240-193069-8	75D-CTRL4	Water	10/05/23 12:00	10/06/23 10:00
240-193069-9	40D-CTRL5	Water	10/05/23 12:00	10/06/23 10:00
240-193069-10	40D-CTRL6	Water	10/05/23 12:00	10/06/23 10:00
240-193069-11	75D-CTRL5	Water	10/05/23 12:00	10/06/23 10:00
240-193069-12	75D-CTRL6	Water	10/05/23 12:00	10/06/23 10:00



Detection Summary

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 40D-CTRL1

Lab Sample ID: 240-193069-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	19		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	260		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40D-CTRL2

Lab Sample ID: 240-193069-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	20		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	260		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75D-CTRL1

Lab Sample ID: 240-193069-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	18		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	260		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75D-CTRL2

Lab Sample ID: 240-193069-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	19		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	310		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40D-CTRL3

Lab Sample ID: 240-193069-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	12		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	250		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40D-CTRL4

Lab Sample ID: 240-193069-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	11		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	250		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75D-CTRL3

Lab Sample ID: 240-193069-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	12		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	280		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75D-CTRL4

Lab Sample ID: 240-193069-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	9.8		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	300		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40D-CTRL5

Lab Sample ID: 240-193069-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.82	J	1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	34		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40D-CTRL6

Lab Sample ID: 240-193069-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.70	J	1.0	0.62	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 40D-CTRL6 (Continued)

Lab Sample ID: 240-193069-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	34		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75D-CTRL5

Lab Sample ID: 240-193069-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.79	J	1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	47		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75D-CTRL6

Lab Sample ID: 240-193069-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.84	J	1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	32		8.0	1.7	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 40D-CTRL1

Lab Sample ID: 240-193069-1

Date Collected: 09/28/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	19		1.0	0.62	ug/L		10/09/23 14:00	10/10/23 17:26	1
Lithium	260		8.0	1.7	ug/L		10/09/23 14:00	10/10/23 17:26	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 40D-CTRL2

Lab Sample ID: 240-193069-2

Date Collected: 09/28/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	20		1.0	0.62	ug/L		10/09/23 14:00	10/10/23 17:39	1
Lithium	260		8.0	1.7	ug/L		10/09/23 14:00	10/10/23 17:39	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 75D-CTRL1

Lab Sample ID: 240-193069-3

Date Collected: 09/28/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	18		1.0	0.62	ug/L		10/09/23 14:00	10/10/23 17:41	1
Lithium	260		8.0	1.7	ug/L		10/09/23 14:00	10/10/23 17:41	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 75D-CTRL2

Lab Sample ID: 240-193069-4

Date Collected: 09/28/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	19		1.0	0.62	ug/L		10/09/23 14:00	10/10/23 17:44	1
Lithium	310		8.0	1.7	ug/L		10/09/23 14:00	10/10/23 17:44	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 40D-CTRL3

Lab Sample ID: 240-193069-5

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	12		1.0	0.62	ug/L		10/09/23 14:00	10/10/23 17:51	1
Lithium	250		8.0	1.7	ug/L		10/09/23 14:00	10/10/23 17:51	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 40D-CTRL4

Lab Sample ID: 240-193069-6

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	11		1.0	0.62	ug/L		10/09/23 14:00	10/10/23 17:54	1
Lithium	250		8.0	1.7	ug/L		10/09/23 14:00	10/10/23 17:54	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 75D-CTRL3

Lab Sample ID: 240-193069-7

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	12		1.0	0.62	ug/L		10/09/23 14:00	10/10/23 17:56	1
Lithium	280		8.0	1.7	ug/L		10/09/23 14:00	10/10/23 17:56	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 75D-CTRL4

Lab Sample ID: 240-193069-8

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	9.8		1.0	0.62	ug/L		10/09/23 14:00	10/10/23 17:59	1
Lithium	300		8.0	1.7	ug/L		10/09/23 14:00	10/10/23 17:59	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 40D-CTRL5

Lab Sample ID: 240-193069-9

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.82	J	1.0	0.62	ug/L		10/09/23 14:00	10/10/23 18:01	1
Lithium	34		8.0	1.7	ug/L		10/09/23 14:00	10/10/23 18:01	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 40D-CTRL6

Lab Sample ID: 240-193069-10

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.70	J	1.0	0.62	ug/L		10/09/23 14:00	10/10/23 18:04	1
Lithium	34		8.0	1.7	ug/L		10/09/23 14:00	10/10/23 18:04	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 75D-CTRL5

Lab Sample ID: 240-193069-11

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.79	J	1.0	0.62	ug/L		10/09/23 14:00	10/10/23 18:06	1
Lithium	47		8.0	1.7	ug/L		10/09/23 14:00	10/10/23 18:06	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 75D-CTRL6

Lab Sample ID: 240-193069-12

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.84	J	1.0	0.62	ug/L		10/09/23 14:00	10/10/23 18:09	1
Lithium	32		8.0	1.7	ug/L		10/09/23 14:00	10/10/23 18:09	1

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QC Sample Results

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-193069-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-590065/1-A
Matrix: Water
Analysis Batch: 590283

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 590065

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	0.62	U	1.0	0.62	ug/L		10/09/23 14:00	10/10/23 12:46	1
Lithium	1.7	U	8.0	1.7	ug/L		10/09/23 14:00	10/10/23 12:46	1

Lab Sample ID: LCS 240-590065/2-A
Matrix: Water
Analysis Batch: 590283

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 590065

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Beryllium	500	447		ug/L		89	80 - 120
Lithium	500	466		ug/L		93	80 - 120

Lab Sample ID: 240-193069-1 MS
Matrix: Water
Analysis Batch: 590283

Client Sample ID: 40D-CTRL1
Prep Type: Dissolved
Prep Batch: 590065

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Beryllium	19		500	500		ug/L		96	80 - 120
Lithium	260		500	767		ug/L		102	80 - 120

Lab Sample ID: 240-193069-1 MSD
Matrix: Water
Analysis Batch: 590283

Client Sample ID: 40D-CTRL1
Prep Type: Dissolved
Prep Batch: 590065

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	
				Result	Qualifier					RPD	Limit
Beryllium	19		500	496		ug/L		95	80 - 120	1	20
Lithium	260		500	770		ug/L		103	80 - 120	0	20

QC Association Summary

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-193069-1

Metals

Prep Batch: 590065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-193069-1	40D-CTRL1	Dissolved	Water	3005A	
240-193069-2	40D-CTRL2	Dissolved	Water	3005A	
240-193069-3	75D-CTRL1	Dissolved	Water	3005A	
240-193069-4	75D-CTRL2	Dissolved	Water	3005A	
240-193069-5	40D-CTRL3	Dissolved	Water	3005A	
240-193069-6	40D-CTRL4	Dissolved	Water	3005A	
240-193069-7	75D-CTRL3	Dissolved	Water	3005A	
240-193069-8	75D-CTRL4	Dissolved	Water	3005A	
240-193069-9	40D-CTRL5	Dissolved	Water	3005A	
240-193069-10	40D-CTRL6	Dissolved	Water	3005A	
240-193069-11	75D-CTRL5	Dissolved	Water	3005A	
240-193069-12	75D-CTRL6	Dissolved	Water	3005A	
MB 240-590065/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-590065/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-193069-1 MS	40D-CTRL1	Dissolved	Water	3005A	
240-193069-1 MSD	40D-CTRL1	Dissolved	Water	3005A	

Analysis Batch: 590283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-193069-1	40D-CTRL1	Dissolved	Water	6020B	590065
240-193069-2	40D-CTRL2	Dissolved	Water	6020B	590065
240-193069-3	75D-CTRL1	Dissolved	Water	6020B	590065
240-193069-4	75D-CTRL2	Dissolved	Water	6020B	590065
240-193069-5	40D-CTRL3	Dissolved	Water	6020B	590065
240-193069-6	40D-CTRL4	Dissolved	Water	6020B	590065
240-193069-7	75D-CTRL3	Dissolved	Water	6020B	590065
240-193069-8	75D-CTRL4	Dissolved	Water	6020B	590065
240-193069-9	40D-CTRL5	Dissolved	Water	6020B	590065
240-193069-10	40D-CTRL6	Dissolved	Water	6020B	590065
240-193069-11	75D-CTRL5	Dissolved	Water	6020B	590065
240-193069-12	75D-CTRL6	Dissolved	Water	6020B	590065
MB 240-590065/1-A	Method Blank	Total Recoverable	Water	6020B	590065
LCS 240-590065/2-A	Lab Control Sample	Total Recoverable	Water	6020B	590065
240-193069-1 MS	40D-CTRL1	Dissolved	Water	6020B	590065
240-193069-1 MSD	40D-CTRL1	Dissolved	Water	6020B	590065

Lab Chronicle

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 40D-CTRL1

Lab Sample ID: 240-193069-1

Date Collected: 09/28/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			590065	S4FJ	EET CLE	10/09/23 14:00
Dissolved	Analysis	6020B		1	590283	RKT	EET CLE	10/10/23 17:26

Client Sample ID: 40D-CTRL2

Lab Sample ID: 240-193069-2

Date Collected: 09/28/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			590065	S4FJ	EET CLE	10/09/23 14:00
Dissolved	Analysis	6020B		1	590283	RKT	EET CLE	10/10/23 17:39

Client Sample ID: 75D-CTRL1

Lab Sample ID: 240-193069-3

Date Collected: 09/28/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			590065	S4FJ	EET CLE	10/09/23 14:00
Dissolved	Analysis	6020B		1	590283	RKT	EET CLE	10/10/23 17:41

Client Sample ID: 75D-CTRL2

Lab Sample ID: 240-193069-4

Date Collected: 09/28/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			590065	S4FJ	EET CLE	10/09/23 14:00
Dissolved	Analysis	6020B		1	590283	RKT	EET CLE	10/10/23 17:44

Client Sample ID: 40D-CTRL3

Lab Sample ID: 240-193069-5

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			590065	S4FJ	EET CLE	10/09/23 14:00
Dissolved	Analysis	6020B		1	590283	RKT	EET CLE	10/10/23 17:51

Client Sample ID: 40D-CTRL4

Lab Sample ID: 240-193069-6

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			590065	S4FJ	EET CLE	10/09/23 14:00
Dissolved	Analysis	6020B		1	590283	RKT	EET CLE	10/10/23 17:54

Lab Chronicle

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-193069-1

Client Sample ID: 75D-CTRL3

Lab Sample ID: 240-193069-7

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			590065	S4FJ	EET CLE	10/09/23 14:00
Dissolved	Analysis	6020B		1	590283	RKT	EET CLE	10/10/23 17:56

Client Sample ID: 75D-CTRL4

Lab Sample ID: 240-193069-8

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			590065	S4FJ	EET CLE	10/09/23 14:00
Dissolved	Analysis	6020B		1	590283	RKT	EET CLE	10/10/23 17:59

Client Sample ID: 40D-CTRL5

Lab Sample ID: 240-193069-9

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			590065	S4FJ	EET CLE	10/09/23 14:00
Dissolved	Analysis	6020B		1	590283	RKT	EET CLE	10/10/23 18:01

Client Sample ID: 40D-CTRL6

Lab Sample ID: 240-193069-10

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			590065	S4FJ	EET CLE	10/09/23 14:00
Dissolved	Analysis	6020B		1	590283	RKT	EET CLE	10/10/23 18:04

Client Sample ID: 75D-CTRL5

Lab Sample ID: 240-193069-11

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			590065	S4FJ	EET CLE	10/09/23 14:00
Dissolved	Analysis	6020B		1	590283	RKT	EET CLE	10/10/23 18:06

Client Sample ID: 75D-CTRL6

Lab Sample ID: 240-193069-12

Date Collected: 10/05/23 12:00

Matrix: Water

Date Received: 10/06/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			590065	S4FJ	EET CLE	10/09/23 14:00
Dissolved	Analysis	6020B		1	590283	RKT	EET CLE	10/10/23 18:09

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-193069-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Chain of Custody Record



Environment Testing

3.9/3.7
1 of 2

Client Information		Lab PM: Cisneros, Roxanne	Carrier Tracking No(s): 240-110811-39502.3
Client Contact: Sydne Spinella		E-Mail: roxanne.cisneros@et.eurofins.com	State of Origin: Page 3 of 5
Company: Sirem, div of Geosyntec Consultants		PWSID:	Job #:
Address: 180A Market Place Blvd		Due Date Requested:	
City: Knoxville		TAT Requested (days): Standard	
State, Zip: TN, 37922		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Phone: 865-330-0037 (Tel)		PO #: 2.01.8151	
Email: Sydne.Spinella@Siremlab.com		WO #: 24028249	
Project Name: Water / Soil Testing		Project #: 24028249	
Site: Plant Wansley		SSOW#:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, W=water/Oil)	Preservation Code: (B=10min, A=AM)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		6020B - Dissolved Be & Li (FF)		Special Instructions/Note:
						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B - Dissolved Be & Li (FF)	6020B - Dissolved Be & Li (FF)			
40D-CTRL1	09-28-23	1200	G	Water								
40D-CTRL2	09-28-23	1200	G	Water								
75D-CTRL1	09-28-23	1200	G	Water								
75D-CTRL2	09-28-23	1200	G	Water								
40D-CTRL3	10-05-23	1200	G	Water								
40D-CTRL4	10-05-23	1200	G	Water								
75D-CTRL3	10-05-23	1200	G	Water								
75D-CTRL4	10-05-23	1200	G	Water								
40D-CTRL5	10-05-23	1200	G	Water								
40D-CTRL4	10-05-23	1200	G	Water								
75D-CTRL5	10-05-23	1200	G	Water								

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



Empty Kit Relinquished by:		Date:	
Relinquished by: Sydne Spinella	Company: SIREM	Received by: [Signature]	Date/Time: 10-05-23 1200
Relinquished by:	Company:	Received by:	Date/Time:
Relinquished by:	Company:	Received by:	Date/Time:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:	
Cooler Temperature(s) °C and Other Remarks:			

Eurofins - Cleveland Sample Receipt Form/Narrative

Login #: 193069

Barberton Facility

Client: Sirem div Site Name

Cooler unpacked by: Rachelle Hadel

Cooler Received on 10-6-23 Opened on 10-6-23

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

Eurofins Cooler # EC 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 # 21 (CF - 0.2 °C) Observed Cooler Temp 3.9 °C Corrected Cooler Temp 3.7 °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 (ID/Date/Time) be reconciled with the COC? Yes No

9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?

10. Were correct bottle(s) used for the test(s) indicated? Yes No

11. Sufficient quantity received to perform indicated analyses? Yes No

12. Are these work share samples and all listed on the COC? Yes No

If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC316719

14. Were VOAs on the COC? Yes No

15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No

17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by:

19. 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)

20. 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:



Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
40D-CTRL1	240-193069-A-1	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40D-CTRL2	240-193069-A-2	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75D-CTRL1	240-193069-A-3	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75D-CTRL2	240-193069-A-4	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40D-CTRL3	240-193069-A-5	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40D-CTRL4	240-193069-A-6	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75D-CTRL3	240-193069-A-7	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75D-CTRL4	240-193069-A-8	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40D-CTRL5	240-193069-A-9	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
40D-CTRL6	240-193069-A-10	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75D-CTRL5	240-193069-A-11	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
75D-CTRL6	240-193069-A-12	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____



ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Jacques Smith
Sirem, div of Geosyntec Consultants
180A Market Place Blvd
Knoxville, Tennessee 37922

Generated 10/19/2023 9:59:25 PM

JOB DESCRIPTION

Plant Wansley

JOB NUMBER

240-193540-1

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Roxanne Cisneros

Generated
10/19/2023 9:59:25 PM

Authorized for release by
Roxanne Cisneros, Senior Project Manager
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(615)301-5761



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Definitions/Glossary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

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.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Job ID: 240-193540-1

Laboratory: Eurofins Cleveland

Narrative

**Job Narrative
240-193540-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/13/2023 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Method Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396



Sample Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-193540-1	40D-CTRL7	Water	10/12/23 12:00	10/13/23 09:40
240-193540-2	40D-CTRL8	Water	10/12/23 12:00	10/13/23 09:40
240-193540-3	40-OXIDIZING 1	Water	10/12/23 12:00	10/13/23 09:40
240-193540-4	40-OXIDIZING 2	Water	10/12/23 12:00	10/13/23 09:40
240-193540-5	40-REDUCING 1	Water	10/12/23 12:00	10/13/23 09:40
240-193540-6	40-REDUCING 2	Water	10/12/23 12:00	10/13/23 09:40
240-193540-7	75D-CTRL7	Water	10/12/23 12:00	10/13/23 09:40
240-193540-8	75D-CTRL8	Water	10/12/23 12:00	10/13/23 09:40
240-193540-9	75-OXIDIZING 1	Water	10/12/23 12:00	10/13/23 09:40
240-193540-10	75-OXIDIZING 2	Water	10/12/23 12:00	10/13/23 09:40
240-193540-11	75-REDUCING 1	Water	10/12/23 12:00	10/13/23 09:40
240-193540-12	75-REDUCING 2	Water	10/12/23 12:00	10/13/23 09:40



Detection Summary

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 40D-CTRL7

Lab Sample ID: 240-193540-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	1.4		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	44		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40D-CTRL8

Lab Sample ID: 240-193540-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.96	J	1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	51		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-OXIDIZING 1

Lab Sample ID: 240-193540-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.77	J	1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	54		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-OXIDIZING 2

Lab Sample ID: 240-193540-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	49		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-REDUCING 1

Lab Sample ID: 240-193540-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.66	J	1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	61		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 40-REDUCING 2

Lab Sample ID: 240-193540-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	45		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75D-CTRL7

Lab Sample ID: 240-193540-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	1.0		1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	51		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75D-CTRL8

Lab Sample ID: 240-193540-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.65	J	1.0	0.62	ug/L	1		6020B	Dissolved
Lithium	60		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75-OXIDIZING 1

Lab Sample ID: 240-193540-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	48		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75-OXIDIZING 2

Lab Sample ID: 240-193540-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	64		8.0	1.7	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 75-REDUCING 1

Lab Sample ID: 240-193540-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	48		8.0	1.7	ug/L	1		6020B	Dissolved

Client Sample ID: 75-REDUCING 2

Lab Sample ID: 240-193540-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	60		8.0	1.7	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland



Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 40D-CTRL7

Lab Sample ID: 240-193540-1

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	1.4		1.0	0.62	ug/L		10/17/23 14:00	10/18/23 17:21	1
Lithium	44		8.0	1.7	ug/L		10/17/23 14:00	10/18/23 17:21	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 40D-CTRL8

Lab Sample ID: 240-193540-2

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.96	J	1.0	0.62	ug/L		10/17/23 14:00	10/18/23 17:24	1
Lithium	51		8.0	1.7	ug/L		10/17/23 14:00	10/18/23 17:24	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 40-OXIDIZING 1

Lab Sample ID: 240-193540-3

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.77	J	1.0	0.62	ug/L		10/17/23 14:00	10/18/23 17:26	1
Lithium	54		8.0	1.7	ug/L		10/17/23 14:00	10/18/23 17:26	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 40-OXIDIZING 2

Lab Sample ID: 240-193540-4

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.62	U	1.0	0.62	ug/L		10/17/23 14:00	10/18/23 17:28	1
Lithium	49		8.0	1.7	ug/L		10/17/23 14:00	10/18/23 17:28	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 40-REDUCING 1

Lab Sample ID: 240-193540-5

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.66	J	1.0	0.62	ug/L		10/17/23 14:00	10/18/23 17:36	1
Lithium	61		8.0	1.7	ug/L		10/17/23 14:00	10/18/23 17:36	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 40-REDUCING 2

Lab Sample ID: 240-193540-6

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.62	U	1.0	0.62	ug/L		10/17/23 14:00	10/18/23 17:38	1
Lithium	45		8.0	1.7	ug/L		10/17/23 14:00	10/18/23 17:38	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 75D-CTRL7

Lab Sample ID: 240-193540-7

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	1.0		1.0	0.62	ug/L		10/17/23 14:00	10/18/23 17:41	1
Lithium	51		8.0	1.7	ug/L		10/17/23 14:00	10/18/23 17:41	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 75D-CTRL8

Lab Sample ID: 240-193540-8

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.65	J	1.0	0.62	ug/L		10/17/23 14:00	10/18/23 17:43	1
Lithium	60		8.0	1.7	ug/L		10/17/23 14:00	10/18/23 17:43	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 75-OXIDIZING 1

Lab Sample ID: 240-193540-9

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.62	U	1.0	0.62	ug/L		10/17/23 14:00	10/18/23 17:53	1
Lithium	48		8.0	1.7	ug/L		10/17/23 14:00	10/18/23 17:53	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 75-OXIDIZING 2

Lab Sample ID: 240-193540-10

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.62	U	1.0	0.62	ug/L		10/17/23 14:00	10/18/23 17:46	1
Lithium	64		8.0	1.7	ug/L		10/17/23 14:00	10/18/23 17:46	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 75-REDUCING 1

Lab Sample ID: 240-193540-11

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.62	U	1.0	0.62	ug/L		10/17/23 14:00	10/18/23 17:48	1
Lithium	48		8.0	1.7	ug/L		10/17/23 14:00	10/18/23 17:48	1

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Client Sample Results

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 75-REDUCING 2

Lab Sample ID: 240-193540-12

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.62	U	1.0	0.62	ug/L		10/17/23 14:00	10/18/23 17:51	1
Lithium	60		8.0	1.7	ug/L		10/17/23 14:00	10/18/23 17:51	1

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QC Sample Results

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-193540-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-591094/1-A
Matrix: Water
Analysis Batch: 591382

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 591094

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	0.62	U	1.0	0.62	ug/L		10/17/23 14:00	10/18/23 16:59	1
Lithium	1.7	U	8.0	1.7	ug/L		10/17/23 14:00	10/18/23 16:59	1

Lab Sample ID: LCS 240-591094/2-A
Matrix: Water
Analysis Batch: 591382

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 591094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	500	471		ug/L		94	80 - 120

QC Association Summary

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-193540-1

Metals

Prep Batch: 591094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-193540-1	40D-CTRL7	Dissolved	Water	3005A	
240-193540-2	40D-CTRL8	Dissolved	Water	3005A	
240-193540-3	40-OXIDIZING 1	Dissolved	Water	3005A	
240-193540-4	40-OXIDIZING 2	Dissolved	Water	3005A	
240-193540-5	40-REDUCING 1	Dissolved	Water	3005A	
240-193540-6	40-REDUCING 2	Dissolved	Water	3005A	
240-193540-7	75D-CTRL7	Dissolved	Water	3005A	
240-193540-8	75D-CTRL8	Dissolved	Water	3005A	
240-193540-9	75-OXIDIZING 1	Dissolved	Water	3005A	
240-193540-10	75-OXIDIZING 2	Dissolved	Water	3005A	
240-193540-11	75-REDUCING 1	Dissolved	Water	3005A	
240-193540-12	75-REDUCING 2	Dissolved	Water	3005A	
MB 240-591094/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-591094/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 591382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-193540-1	40D-CTRL7	Dissolved	Water	6020B	591094
240-193540-2	40D-CTRL8	Dissolved	Water	6020B	591094
240-193540-3	40-OXIDIZING 1	Dissolved	Water	6020B	591094
240-193540-4	40-OXIDIZING 2	Dissolved	Water	6020B	591094
240-193540-5	40-REDUCING 1	Dissolved	Water	6020B	591094
240-193540-6	40-REDUCING 2	Dissolved	Water	6020B	591094
240-193540-7	75D-CTRL7	Dissolved	Water	6020B	591094
240-193540-8	75D-CTRL8	Dissolved	Water	6020B	591094
240-193540-9	75-OXIDIZING 1	Dissolved	Water	6020B	591094
240-193540-10	75-OXIDIZING 2	Dissolved	Water	6020B	591094
240-193540-11	75-REDUCING 1	Dissolved	Water	6020B	591094
240-193540-12	75-REDUCING 2	Dissolved	Water	6020B	591094
MB 240-591094/1-A	Method Blank	Total Recoverable	Water	6020B	591094
LCS 240-591094/2-A	Lab Control Sample	Total Recoverable	Water	6020B	591094

Lab Chronicle

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 40D-CTRL7

Lab Sample ID: 240-193540-1

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			591094	BN	EET CLE	10/17/23 14:00
Dissolved	Analysis	6020B		1	591382	RKT	EET CLE	10/18/23 17:21

Client Sample ID: 40D-CTRL8

Lab Sample ID: 240-193540-2

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			591094	BN	EET CLE	10/17/23 14:00
Dissolved	Analysis	6020B		1	591382	RKT	EET CLE	10/18/23 17:24

Client Sample ID: 40-OXIDIZING 1

Lab Sample ID: 240-193540-3

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			591094	BN	EET CLE	10/17/23 14:00
Dissolved	Analysis	6020B		1	591382	RKT	EET CLE	10/18/23 17:26

Client Sample ID: 40-OXIDIZING 2

Lab Sample ID: 240-193540-4

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			591094	BN	EET CLE	10/17/23 14:00
Dissolved	Analysis	6020B		1	591382	RKT	EET CLE	10/18/23 17:28

Client Sample ID: 40-REDUCING 1

Lab Sample ID: 240-193540-5

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			591094	BN	EET CLE	10/17/23 14:00
Dissolved	Analysis	6020B		1	591382	RKT	EET CLE	10/18/23 17:36

Client Sample ID: 40-REDUCING 2

Lab Sample ID: 240-193540-6

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			591094	BN	EET CLE	10/17/23 14:00
Dissolved	Analysis	6020B		1	591382	RKT	EET CLE	10/18/23 17:38

Lab Chronicle

Client: Sirem, div of Geosyntec Consultants
Project/Site: Plant Wansley

Job ID: 240-193540-1

Client Sample ID: 75D-CTRL7

Lab Sample ID: 240-193540-7

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			591094	BN	EET CLE	10/17/23 14:00
Dissolved	Analysis	6020B		1	591382	RKT	EET CLE	10/18/23 17:41

Client Sample ID: 75D-CTRL8

Lab Sample ID: 240-193540-8

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			591094	BN	EET CLE	10/17/23 14:00
Dissolved	Analysis	6020B		1	591382	RKT	EET CLE	10/18/23 17:43

Client Sample ID: 75-OXIDIZING 1

Lab Sample ID: 240-193540-9

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			591094	BN	EET CLE	10/17/23 14:00
Dissolved	Analysis	6020B		1	591382	RKT	EET CLE	10/18/23 17:53

Client Sample ID: 75-OXIDIZING 2

Lab Sample ID: 240-193540-10

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			591094	BN	EET CLE	10/17/23 14:00
Dissolved	Analysis	6020B		1	591382	RKT	EET CLE	10/18/23 17:46

Client Sample ID: 75-REDUCING 1

Lab Sample ID: 240-193540-11

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			591094	BN	EET CLE	10/17/23 14:00
Dissolved	Analysis	6020B		1	591382	RKT	EET CLE	10/18/23 17:48

Client Sample ID: 75-REDUCING 2

Lab Sample ID: 240-193540-12

Date Collected: 10/12/23 12:00

Matrix: Water

Date Received: 10/13/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			591094	BN	EET CLE	10/17/23 14:00
Dissolved	Analysis	6020B		1	591382	RKT	EET CLE	10/18/23 17:51

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Sirem, div of Geosyntec Consultants
 Project/Site: Plant Wansley

Job ID: 240-193540-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



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Eurofins - Cleveland Sample Receipt Form/Narrative Barberton Facility Login #: 193540

Client: Sire m div of Geo Site Name: Cooler unpacked by: [Signature]
Cooler Received on: 10-13-23 Opened on: 10-13-23
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

Eurofins Cooler #: EC 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 #: 21 (CF -0.2 °C) Observed Cooler Temp: 23 °C Corrected Cooler Temp: 2.1 °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1
 - 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 (ID/Date/Time) be reconciled with the COC? Yes No
- 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
- 10. Were correct bottle(s) used for the test(s) indicated? Yes No
- 11. Sufficient quantity received to perform indicated analyses? Yes No
- 12. Are these work share samples and all listed on the COC? Yes No
- 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC316719
- 14. Were VOAs on the COC? Yes No
- 15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
- 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No
- 17. 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 _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:

19. 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)

20. 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: _____

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Environment Testing
TestAmerica

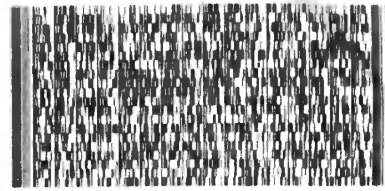
Part # 159470434 NTW EXP 03/24

ORIGIN ID: CAKA (865) 330-0037 SYDNE SPINELLA SIREM, DIV OF GEOSYNTEC CONSULTANTS 180A MARKET PLACE BLVD	SHIP DATE: 04AUG23 ACTWGT: 10.00 LB MAN CAD: 0562065/CAFE3709
KNOXVILLE, TN 37922 UNITED STATES US	

TO LANCE HERSHMAN
EUROFINS TESTAMERICA BARBERTON
180 S VAN BUREN

BARBERTON OH 44203
(330) 312-0176
REF: S240-110811

RMA: 111111



RETURNS MON-SAT

FedEx
TRK# 6549 1091 1736

FRI - 13 OCT AA
PRIORITY OVERNIGHT

NX CAKA

44203
OH-US
CLE



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