2021 Semi-Annual Groundwater Monitoring and Corrective Action Report

Georgia Power Company – Plant Mitchell

Ash Ponds A, 1, and 2

Putney, Georgia

Project No.: 6122160170

Prepared for:

Georgia Power

Atlanta, Georgia

2/28/2022

CERTIFICATION STATEMENT

This *2021 Semi-Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company Plant Mitchell - Ash Ponds A, 1, and 2, Putney, Georgia* has been prepared in compliance with Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 under the supervision of a licensed professional engineer and a licensed professional geologist with Wood Environment & Infrastructure Solutions, Inc.

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SUMMARY

This summary of the 2021 Semi-Annual Groundwater Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program from July through December 2021 at Georgia Power Company's (Georgia Power's) Plant Mitchell Ash Ponds A, 1 and 2 (the Site). This summary was prepared by Wood Environment & Infrastructure Solutions, Inc. (Wood) on behalf of Georgia Power to meet the requirements listed in Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, and by reference Part A, Section 6[1] of the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Mitchell Ash Ponds A, 1, and 2

Georgia Power Company's Plant Mitchell is located approximately eight miles south of Albany, Georgia. The Plant Mitchell Site is comprised of approximately 516 acres, with the northern portion of the Site located in Dougherty County and the southern portion located in Mitchell County. Baker County is located immediately to the west of the Site, with the Flint River forming the county boundary. There are three CCR surface impoundments (ash ponds) at the Site: Ash Pond A, Ash Pond 1, and Ash Pond 2. The three ash ponds are located adjacent to each other and are therefore considered to be one multi-unit for groundwater monitoring purposes. The former coal-fired plant buildings have been demolished. The CCR material is being removed from the ash ponds and the ponds are in the process of being closed. Because the units ceased receiving waste prior to October 19, 2015, Ash Ponds A, 1, and 2 are not subject to Federal monitoring requirements of the CCR rule. The Plant Mitchell CCR Surface Impoundments (Ash Pond A, Ash Pond 1, and Ash Pond 2) Permit Application was submitted to GA EPD in November 2018 and is currently being revised per GA EPD comments.

The groundwater monitoring program for the ash ponds is managed in accordance with the GA EPD CCR Rules. A comprehensive well network monitors the groundwater conditions upgradient and downgradient of the ash ponds, in accordance with GA EPD rule requirements. Routine sampling and reporting began after the background groundwater conditions were established between August 2016 and October 2018. The first detection monitoring event was conducted in March 2019 and the first assessment monitoring event was in October 2019. The Site remains in assessment monitoring.

During the July through December 2021 reporting period, one groundwater sampling event was conducted in September 2021. The September event was a routine semi-annual assessment

[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*

monitoring and samples were analyzed for the full suite of Appendix III[2] and the full suite of Appendix IV[3] constituents. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for September 2021 were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] constituents in wells provided in the table below. There are no confidence intervals of the individual well/constituent pairs above a Groundwater Protection Standard (GWPS). Therefore, no statistically significant levels (SSLs) were identified for the September 2021 sampling event.

Appendix III Constituents	September 2021
Boron	PZ-7D, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33
Calcium	PZ-18, PZ-19, PZ-23A
Chloride	PZ-15, PZ-16, PZ-18
Fluoride	None
pH	PZ-14, PZ-18, PZ-19, PZ-23A
Sulfate	PZ-7D, PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33
TDS	PZ-15, PZ-17, PZ-18, PZ-19, PZ-23A

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program for September 2021, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to the website and provided to GA EPD semi-annually.

[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*

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List of Acronyms

CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
cm/sec	centimeters per second
DO	Dissolved Oxygen
ft/day	feet per day
GA EPD	Georgia Environmental Protection Division
GWPS	Groundwater Protection Standards
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
mg/L	milligrams per liter
NAD	North America Datum of 1983
NAVD	North America Vertical Datum of 1988
NELAP	National Environmental Laboratory Accreditation Program
NTUs	Nephelometric Turbidity Units
OCGA	Official Code of Georgia Annotated
ORP	Oxidation-Reduction Potential
PL	Prediction Limit
QA/QC	Quality Assurance/Quality Control
RL	Reporting Limit (laboratory)
SCS	Southern Company Services
SSI	Statistically Significant Increase
SSL	Statistically Significant Level
su	standard unit (unit for pH values)
US EPA	United States Environmental Protection Agency

1.0 INTRODUCTION

In accordance with the Georgia Environmental Protection Division (GA EPD) Rules of Solid Waste Management 391-3-4-.10(6)(a)-(c), this *2021 Semi-Annual Groundwater Monitoring and Corrective Action Report* has been prepared to document groundwater monitoring activities conducted at Georgia Power Company's (Georgia Power's) Plant Mitchell Ash Ponds A, 1, and 2. To specify groundwater monitoring requirements, GA EPD Rule 391-3-4-.10(6)(a) incorporates by reference the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) § 257 Subpart D. For ease of reference, the US EPA CCR Rules are cited within this report instead of the GA EPD Rules.

Groundwater monitoring and reporting for Plant Mitchell are performed in accordance with the monitoring requirements of § 257.90 through § 257.95. This semi-annual report documents the activities completed from July through December 2021 in accordance with Georgia GA EPD Rule 391-3-4-.10(6)(c) and includes the second semi-annual assessment monitoring event conducted in September 2021.

1.1 Site Description and Background

Georgia Power Company's Plant Mitchell is located approximately eight miles south of Albany, Georgia. The Plant Mitchell site (the Site) is comprised of approximately 516 acres, with the northern portion of the Site located in Dougherty County and the southern portion located in Mitchell County. Baker County is located immediately to the west of the Site, with the Flint River forming the county boundary **(Figure 1: Site Location Map)**. As depicted in **Figure 2: Monitoring Network Well Location Map**, the former coal-fired electric generating facility was located to the north of Ash Ponds A, 1, and 2. The Site is partly bounded by the Flint River on the west, the Georgia and Florida Railway on the east, pecan orchards to the south. The wooded land immediately north of the former plant buildings is owned by the Georgia Power Company.

There are three CCR surface impoundments (ash ponds) at the Site: Ash Pond A, Ash Pond 1, and Ash Pond 2. The three ash ponds are located adjacent to each other and are therefore considered to be one multi-unit for groundwater monitoring purposes. The former coal-fired plant buildings have been demolished. The CCR material is being removed from the ash ponds and the ponds are in the process of being closed. The removed CCR material will be transported by rail and/or by truck for disposal at an approved landfill or beneficially reused.

Plant Mitchell Ash Pond A was closed in 1962, Ash Pond 1 closed in 1980, and Ash Pond 2 ceased accepting CCR prior to October 19, 2015. Because the units ceased receiving waste prior to October 19, 2015, Ash Ponds A, 1, and 2 are not subject to Federal monitoring requirements

of the CCR rule. The Plant Mitchell CCR Surface Impoundments (Ash Pond A, Ash Pond 1, and Ash Pond 2) Permit Application was submitted to GA EPD in November 2018 and is currently being revised per GA EPD comments. The application is being revised and will be submitted to GA EPD.

Groundwater monitoring has been initiated in order to meet GA EPD CCR requirements. The CCR background study was initiated in August 2016 and was completed in October 2018. The first detection monitoring event was conducted in March 2019 and the first assessment monitoring event was in October 2019. The semi-annual assessment monitoring event during this reporting period was conducted in September 2021. The Site remains in Assessment monitoring.

1.2 Regional Geology & Hydrogeologic Setting

The geology and hydrogeology of the Plant Mitchell Ash Ponds A, 1, and 2 are summarized below. The Plant Mitchell site is located in the Dougherty Plain physiographic district within the Gulf Coastal Plain Physiographic Province (Watson, 1981; Clark and Zisa, 1976). The Dougherty Plain is characterized as relatively flat to gently rolling lowland karst terrain consisting of solutional features including caves, ephemeral streams, springs, and solution features which manifest surficially as shallow depressions.

The surface and near surface soils in the region consist of approximately 0 to 70 feet of unconsolidated sediment collectively referred to as residuum or overburden. This overburden is typically composed of discontinuous layers of sand and clay derived from the in-place weathering of the underlying Ocala Limestone. The overburden clay content ranges from 10 to 70 percent, with clay content typically being greater than 25 percent (Watson, 1981) making the overburden material less permeable than the underlying carbonate bedrock.

The Ocala Limestone in the region is described as a light-colored fossiliferous friable to well-indurated limestone (Gordon and Gonthier, 2017). Regionally, the Ocala Limestone is between 125 and 275 feet thick with increasing thickness to the southeast. The Ocala Limestone is part of the Floridan aquifer, which is hydraulically separated from the underlying Claiborne aquifer by the Lisbon Confining Unit (Gordon and Gonthier, 2017).

1.2.1 Site Geology

Based on the borings drilled to establish the detection monitoring network, the lithologies underlying the ash pond area from the ground surface to depth are overburden (residuum) and carbonate bedrock. The overburden (residuum) at the Site consists of an interlayered sequence of predominantly fine-grained unconsolidated material including reddish brown to gray silty and

clayey sands overlying sandy clay and clay. The overburden material is composed of the residual product of weathering of the underlying Ocala Limestone in the form of non-calcareous clay interlayered with quartz sand alluvium deposits (Hicks et al, 1981). A discontinuous zone of low permeability fine-grained sediments overlying the Ocala Limestone may serve as a barrier that restricts vertical movement of groundwater from the overburden to the limestone beneath the ash pond area, as indicated by many of the boring logs from multiple subsurface investigations at the Site. The Hydrogeologic Assessment Report (Wood, 2021) presents laboratory analysis of undisturbed samples collected from fine-grained sediment directly overlying the limestone indicate this material can exhibit a permeability on the order of 10^{-4} to 10^{-8} centimeters per second (cm/sec) or 10^{-1} to 10^{-5} feet per day (ft/day). These values are generally consistent with the published range of literature values for overburden materials in the Dougherty Plain area. Hayes, et al. (1983) estimated horizontal hydraulic conductivity ranging from 0.0004 feet/day to 30 feet/day with a median value of 0.002 feet/day for samples gathered in the Dougherty Plain. A sample collected to the north of the study area of Hayes, et al. (1983) estimated a hydraulic conductivity value of 0.002 feet/day and a vertical hydraulic conductivity value of 0.001 feet/day.

Locally, the Ocala Limestone bedrock is characterized as a pink to white, slightly silty, friable to well indurated fossiliferous limestone. The contact between overburden and bedrock at the Site is noted as an abrupt and distinct change in color, texture, and carbonate content from the overburden to bedrock. The Ocala Limestone is often described in the boring logs as a fine to coarse calcareous sand with increasing consolidation and cementation with depth. The surface of the carbonate bedrock is highly irregular due to differential weathering. In general, the bedrock surface slopes from the Site toward the Flint River in the west and southwest, and toward the unnamed creek in the east. As described in the Hydrogeologic Assessment Report (Wood, 2021), in-situ hydraulic conductivity (slug) tests in the bedrock at the Site ranged from 3.83×10^{-4} to 2.05×10^{-3} cm/sec or 1.08 to 5.81 feet/day with an average of 1.07×10^{-3} cm/sec or 3.04 feet/day.

1.2.2 Site Hydrogeology

Two main hydrostratigraphic units are present at the Site: overburden (residuum) and carbonate bedrock and comprise the uppermost aquifer. The bedrock and lower part of the overburden are saturated. Where there is CCR/embankment material overlying the overburden and bedrock, it is predominantly unsaturated as indicated by several piezometers screened in the CCR/overburden contact. The monitoring well network for the Ash Ponds monitors the carbonate upper bedrock because the limestone yields usable, continuous, and persistent water, unlike the overlying overburden.

General groundwater flow in the bedrock aquifer is from the northern and eastern boundaries of the Site toward Ash Ponds 1 and 2 where a more dominant westerly flow direction is present as indicated on **Figure 3: Potentiometric Surface – Upper Bedrock – September 2021.**

1.3 Groundwater Monitoring System

Ash Ponds A, 1, and 2 are located adjacent to each other and are therefore considered to be one multi-unit for groundwater monitoring purposes. The groundwater monitoring system is described below.

Groundwater at the Site is monitored using a comprehensive monitoring system of wells installed to meet federal and state monitoring requirements. Pursuant to § 257.91, Georgia Power installed a groundwater monitoring system within the uppermost aquifer at Ash Ponds A, 1, and 2. The monitoring system is designed to monitor groundwater passing the waste boundary of the Ash Ponds A, 1, and 2 within the uppermost aquifer. Wells were located to serve as upgradient or downgradient monitoring points of Ash Ponds A, 1, and 2 based on groundwater flow direction. The monitoring well locations are shown in **Figure 2** and **Table 1 Summary of Monitoring Network Well Construction** provides construction details for the well network. The monitoring wells are supplemented with piezometers that are used for water level measurements only (**Table 2: Summary of Piezometer Construction**).

2.0 GROUNDWATER MONITORING ACTIVITIES

As required by 257.90(e), the following describes monitoring-related activities performed from July through December 2021. The groundwater sampling was performed in September 2021 for assessment monitoring in accordance with § 257.93. Samples were collected from each of the monitoring wells listed in **Table 3: Groundwater Sampling Events**. New well PZ-57 was installed in November 2021 after the September 2021 semi-annual event and the initial sampling of the new well will be conducted in 2022 as part of the next semi-annual sampling event.

2.1 Monitoring Well Installation and Maintenance

Monitoring well-related activities conducted during this period included the following:

- As part of the review of permit application, the Georgia Environmental Protection Division (GA EPD) requested the addition of existing piezometer MW-115 into the current groundwater monitoring network with the intent to include a monitoring point between existing monitoring wells PZ-17 and PZ-18. However, MW-115 was not suitable for groundwater quality monitoring due to its lack of use since the late 1990's except for water level measurements in recent years; therefore, MW-115 was abandoned on November 3, 2021 and replaced with monitoring well PZ-57 on November 4, 2021, near the same location as the abandoned piezometer. The report documenting the installation, development, and surveying of PZ-57 and the abandonment of MW-115 is provided in **Appendix A: Well Installation and Abandonment.** New well PZ-57 will be sampled during the next semi-annual event in 2022.

- Monitoring wells are inspected semi-annually to determine if 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 September 2021, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed, as documented in **Appendix B: Well Inspections**. This documentation will serve as the required five year well inspection and was performed under the direction of a professional geologist or engineer registered in the State of Georgia.

- A few minor repairs and maintenance activities were conducted on the wells during this monitoring period and are summarized in the well repair memo in **Appendix B.**

2.2 Assessment Monitoring

Pursuant to § 257.94(e)(1), Georgia Power implemented assessment monitoring based on Statistically Significant Increases (SSIs) of Appendix III constituents identified in the initial detection monitoring event (March 2019). An Assessment Monitoring Program Notification was prepared for Ash Ponds A, 1, and 2 on November 13, 2019, pursuant to § 257.94(e)(3) and placed in the facility's Operating Record as required by § 257.105(h)(5).

A semi-annual assessment monitoring event was conducted in September 2021. Pursuant to § 257.95(d)(1), groundwater samples collected from the CCR monitoring network wells were analyzed for Appendix III constituents and the full suite of Appendix IV constituents. Data reports for the September 2021 monitoring event are included in **Appendix C: Laboratory Analytical and Field Sampling Reports.**

3.0 SAMPLE METHODOLOGY & ANALYSES

The following sections describe the methods used to complete groundwater monitoring at Plant Mitchell Ash Ponds A, 1, and 2.

3.1 Groundwater Elevation Measurements and Flow Direction

Prior to each sampling event, groundwater elevations are recorded from each well in the network for Plant Mitchell Ash Ponds A, 1, and 2. Groundwater elevations recorded during the September 2021 monitoring event are summarized in **Table 4: Summary of Groundwater Elevations**. Groundwater elevation data from the monitoring event were used to develop a potentiometric surface elevation contour map (**Figure 3: Potentiometric Surface – Upper Bedrock – September 2021).** The September 2021 groundwater elevations were calculated using the top of casing elevations from the June 2020 re-survey data. Groundwater flow in the carbonate upper bedrock **(Figure 3)** is to the west-southwest. The groundwater flow pattern observed during the September 2021 monitoring event is consistent with conditions observed during previous monitoring events.

3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater flow velocity at Plant Mitchell Ash Ponds A, 1, and 2 was calculated using the commonly used derivative of Darcy's Law. Specifically,

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

Where:

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

$K =$ *Average hydraulic conductivity of the aquifer* $\left(\frac{feet}{day}\right)$

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

$n_e =$ *Effective porosity*

Although Darcy's equation is primarily applicable to diffuse flow in porous media, it is also used where flow is analogous to conditions in a homogenous aquifer. Stewart, et al. (1999) states that "water flow in the Upper Floridan (Ocala Limestone) can be classified generally as (1) diffuse, where flow is analogous to conditions in homogenous aquifer, and can be described by using basic Darcian equations; and (2) conduit, where water flows in distinct conduits and surrounding rock has comparatively low porosity and low permeability." Based on the lack of karst features such as cavities in boring logs, the narrow range and relatively low values of

hydraulic conductivity, and relatively uniform potentiometric surface for the bedrock aquifer at the Site, the application of Darcy's equation produces approximate linear groundwater flow velocities for the shallow bulk carbonate bedrock aquifer.

Groundwater flow velocities were calculated using an average hydraulic conductivity value of 3.04 feet/day, and an effective porosity of 20 percent (Hayes, et al., 1983). **Table 5: Groundwater Flow Velocity Calculations** summarize the groundwater flow velocities. Results for groundwater flow velocities ranged from 0.02 to 0.03 feet/day (8.12 to 10.3 feet/year). These calculated groundwater velocities across the Site are generally consistent with historical calculations and with expected velocities in the Site-specific geology, therefore, confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

3.3 Groundwater Sampling

Groundwater samples were collected for the September 2021 monitoring event in accordance with § 257.93(a). Each of the monitoring wells at the Site is equipped with a dedicated QED bladder pump. The monitoring wells were purged and sampled using low-flow sampling procedures. Sampling equipment and pump intakes were placed at the midpoint of the well screen. Care was taken to maintain a water level above the top of screen and not draw the water level down below the pump during purging. Water level stabilization was achieved when three consecutive water level measurements vary by 0.3 foot or less at a pumping rate of no less than 100 milliliters per minute. A SmarTroll or AquaTroll (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, dissolved oxygen (DO), temperature, and oxygen-reduction potential (ORP) and a Hach 2100Q (or similar) portable turbidity meter was used to measure turbidity during well purging to verify stabilization prior to sampling. Groundwater samples were collected when the following stabilization criteria were met:

- pH ± 0.1 Standard Units (s.u.).
- Specific conductance ± 5 percent.
- DO ±10 percent or ±0.2 milligrams per liter (mg/L) (whichever is greater) for DO where DO> 0.5 mg/L. If DO< 0.5mg/L no stabilization criteria apply
- Turbidity measurements less than 5 Nephelometric Turbidity Units, or between 5 and 10 NTUs after 3 hours of purging.

Once stabilization was achieved, samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to the analytical laboratory following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the monitoring event are provided in **Appendix C.**

3.4 Laboratory Analyses

The full suites of Appendix III and IV constituents were analyzed during the September 2021 semi-annual event. Analytical methods used for groundwater sample analyses are listed on the analytical laboratory reports included in **Appendix C**.

Laboratory analyses were performed by Pace Analytical Services, LLC, of Peachtree Corners, Georgia, and Greensburg, Pennsylvania. Both Pace laboratories are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all constituents analyzed. In addition, Pace laboratories are certified to perform analysis by the State of Georgia. Groundwater data laboratory reports and chain of custody records for the monitoring events are presented in **Appendix C**.

3.5 Groundwater Analytical Results

Table 6: Analytical Data Summary Appendix III - September 2021, summarizes the analytical data for the Appendix III constituents for the semi-annual monitoring event. The complete laboratory and field data sheets are included in **Appendix C**. Time series data for the Appendix III constituents are provided in **Appendix D: Statistical Analyses**.

Table 7: Analytical Data Summary Appendix IV – September 2021 summarizes the analytical data for the Appendix IV constituents for the September 2021 semi-annual monitoring event. The complete laboratory and field data sheets are included in **Appendix C**. Time series data for the Appendix III constituents are provided in **Appendix D**.

3.6 Quality Assurance & Quality Control

During each sampling event, quality assurance/quality control (QA/QC) samples are collected. Equipment blanks (where non-dedicated sampling equipment is used) are collected at a rate of one QA/QC sample per 10 groundwater samples. Blind field duplicate samples were collected by filling additional containers at the same location during the sampling event and were collected at a rate of one QA/QC sample per 20 groundwater samples. Field blanks were also collected to evaluate ambient conditions at the sampling locations at a rate of one QA/QC sample per 20 groundwater samples. Quality assurance and quality control of the groundwater data was assessed by performing a data quality evaluation of the laboratory results reported. A data quality evaluation was conducted on the data using laboratory precision and accuracy, and analytical method requirements. The constituent concentrations were generally within the historical range of concentrations. The data quality evaluations are included in **Appendix C**.

The analytical results provided in **Tables 6 and 7** provide concentrations from the most recent sampling event as reported by the laboratory. When values are followed by a "J" flag, this indicates that the value is an estimated analyte concentration detected between the method detection limit and the laboratory reporting limit. The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions. Radium values followed by a "U" flag indicate the constituent was not detected above the analytical minimum detectable concentration. The relative percent difference for the parent and duplicate sample data for anion and metals data was less than 20 percent indicating good sampling precision. The relative percent difference for Radium-226 in one sample set was above 20 percent, but the concentrations were less than five times the minimum detection concentration and therefore the results were not qualified. The data are considered usable for meeting project objectives and the results are considered valid.

4.0 STATISTICAL ANALYSIS

The Site is currently in assessment monitoring. Statistical analysis of Appendix III groundwater monitoring data was performed on samples collected from the groundwater monitoring network pursuant to § 257.93(f) and following the Professional Engineer-certified statistical analysis plans. The statistical analysis plan used at the Site was developed in April 2019 by Groundwater Stats Consulting in accordance with § 257.93(f) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, EPA 530/R-09-007 (US EPA, 2009). To develop the statistical method, analytical data collected during the background period were evaluated and used to develop statistical limits for each Appendix III constituent. Subsequent detection monitoring results were compared to the statistical limits to determine if concentrations were statistically different from background.

Pursuant to § 257.95(d)(2), Georgia Power established groundwater protection standards (GWPS) for the Appendix IV monitoring constituents and conducted statistical analysis of the Appendix IV groundwater monitoring data obtained during the September 2021 semi-annual assessment monitoring event to evaluate if concentrations statistically exceeded the established GWPS. The following subsections provide an overview of the statistical methods used to evaluate Appendix III and IV constituents and statistical analyses results.

4.1 Statistical Method

Sanitas groundwater statistical software was used to perform the statistical analyses at the Site. Sanitas is a commercially available decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by US EPA regulations and guidance as recommended in the Unified Guidance (US EPA, 2009) document. The Sanitas groundwater statistical software was used to perform the statistical analyses of groundwater quality semi-annual data obtained in September 2021. The interwell statistical method was used for the analysis of the Appendix III constituents. Confidence intervals were calculated for each of the detected Appendix IV constituents in each downgradient well. **Table 8: Statistical Method Summary** provides a summary of the statistical methodology used at Ash Ponds A, 1, and 2 for the semi-annual monitoring event conducted in September 2021 and will be used for routine monitoring in the future. Specific methodology information is described in the following paragraphs.

4.1.1 Appendix III Statistical Method

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. The interwell prediction limits were used to evaluate the full suite of Appendix III constituents. When using the interwell method, upgradient well data are pooled to establish a background statistical limit (PL) for each constituent. Pooled concentrations from Site upgradient wells (PZ-1D, PZ-2D, PZ-31, PZ-32) were used to establish the prediction limit for each individual Appendix III constituent. Appendix III constituent concentrations from the September 2021 monitoring event were compared to the interwell prediction limits to evaluate whether downgradient well concentrations exceed background statistical limits. When a constituent concentration exceeds the PL, a statistically significant increase (SSI) exceedance is identified.

If data from a sampling event initially exceeds the PL, an optional resampling strategy can be used to verify the result as described in Section 4.1 and **Table 8.** A confirmed exceedance is only noted when the resample confirms the initial exceedance by also exceeding the prediction limit or if resampling is not performed. If the resample does not exceed the PL, then there is no SSI.

4.1.2 Appendix IV Statistical Method

The assessment monitoring program statistics for Appendix IV constituents at Plant Mitchell were conducted in two parts. The first part was the calculation of tolerance limits for site-specific background limits for Appendix IV constituents. The second part was the calculation of confidence intervals for individual downgradient well/constituent pairs.

Interwell tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data for Appendix IV constituents. Parametric tolerance limits are used when data follow a normal or transformed-normal distribution such as for barium and radium. When data contained greater than 50 percent nondetects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. The background limits were then used when determining the GWPS under 40 CFR § 257.95(h).

As described in 40 CFR § 257.95(h) (1-3), 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 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 specified GWPS

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). GA EPD has not incorporated the updated GWPS into the current GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under GA EPD Rules, the GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following the above GA EPD Rule requirements, GWPS were established for statistical comparison of Appendix IV constituents for the September 2021 sample event. **Table 9: Summary of Groundwater Protection Standards** summarizes the background limits established for each Appendix IV constituent for each event and the GWPS established under GA EPD Rules for each event.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well for each event. The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the GA EPD Rules 391-3-4-.10(6)(a). 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, an SSL exceedance is identified.

4.2 Statistical Analyses Results – Appendix III

The statistical analysis and comparison to prediction limits are included as **Appendix D: Statistical Analyses**. Based on review of the full Appendix III statistical analysis discussion presented in **Appendix D**, groundwater conditions have not returned to background concentrations and assessment monitoring should continue to be conducted.

4.3 Statistical Analyses Results- Appendix IV

Appendix D: Statistical Analyses shows the individual well/constituent pairs with their respective confidence intervals in comparison to the respective constituent GWPS. There are no confidence intervals of the individual well/constituent pairs above a GWPS, established according to GA EPD Rules 391-3-4-.10(6)(a). Therefore, no SSLs were identified for the September 2021 sampling event.

5.0 MONITORING PROGRAM STATUS

The Plant Mitchell Ash Ponds A, 1, and 2 CCR multi-unit is in assessment monitoring due to the detection of SSIs of Appendix III constituents initially in March 2019. Similar SSIs of Appendix III constituents were detected in the September 2021 semi-annual event. No SSLs were identified for the Appendix IV constituents during the September 2021 event. Pursuant to § 257.95, Georgia Power will continue assessment monitoring at Plant Mitchell Ash Ponds A, 1, and 2.

6.0 CONCLUSIONS & FUTURE ACTIONS

This *2021 Semi-Annual Groundwater Monitoring & Corrective Action Report* for Georgia Power's Plant Mitchell Ash Ponds A, 1, and 2 was prepared to fulfill the requirements of Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10. Statistical evaluations of the groundwater monitoring data for Plant Mitchell Ash Ponds A, 1, and 2 identified SSIs of Appendix III groundwater monitoring constituents. Georgia Power has initiated assessment monitoring pursuant to the requirements of § 257.95. The next semi-annual assessment sampling event is planned for January 2022. The next semi-annual assessment monitoring event will include sampling and analysis of all Appendix III and IV constituents.

7.0 REFERENCES

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TABLES

TABLE 1
SUMMARY OF MONITORING NETWORK WELL CONSTRUCTION
Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well Name	Installation Date	Northing[1]	Easting[1]	Ground Surface Elevation (feet NAVD88)[2] (June 2020 Resurvey)	Top of Casing Elevation (feet NAVD88)[2] (June 2020 Resurvey)	Top of Screen Elevation (feet NAVD88)[3]	Bottom of Screen Elevation (feet NAVD88)[3]	Total Well Depth on Construction Log (feet below land surface)	Groundwater Zone Screened	Location
PZ-1D	6/11/2014	526353.9	2307362.8	193.44	196.44	125.8	115.8	78.0	Bedrock	Upgradient
PZ-2D	6/10/2014	526067.3	2308155.4	175.64	178.51	108.0	98.0	78.0	Bedrock	Upgradient
PZ-31	10/13/2016	526996.3	2306857.6	180.32	182.96	133.3	123.3	57.0	Bedrock	Upgradient
PZ-32	10/13/2016	526078.7	2307723.7	178.19	180.75	126.2	116.2	62.0	Bedrock	Upgradient
PZ-7D	6/3/2014	521425.1	2305995.3	170.28	173.08	123.7	113.7	57.0	Bedrock	Downgradient
PZ-14	7/25/2016	521473.1	2306804.8	180.85	183.46	140.9	130.9	50.0	Bedrock	Downgradient
PZ-15	7/23/2016	521600.2	2305357.3	167.38	170.37	97.4	87.4	80.0	Bedrock	Downgradient
PZ-16	7/25/2016	522125.0	2305359.9	171.21	173.92	131.2	121.2	50.0	Bedrock	Downgradient
PZ-17	7/22/2016	522587.9	2305886.7	170.12	172.91	120.1	110.1	60.0	Bedrock	Downgradient
PZ-18	7/23/2016	523145.7	2306142.3	167.34	170.11	117.3	107.3	60.0	Bedrock	Downgradient
PZ-19	7/13/2016	523582.1	2306153.6	169.40	172.05	120.4	110.4	60.0	Bedrock	Downgradient
PZ-23A[4]	3/10/2020	523831.5	2307743.4	189.06	191.85	134.6	124.6	64.5	Bedrock	Downgradient
PZ-25	7/20/2016	524492.6	2306152.0	168.24	171.14	118.2	108.2	60.0	Bedrock	Downgradient
PZ-33	10/2/2016	522212.6	2307233.9	187.08	189.61	126.7	116.7	70.4	Bedrock	Downgradient
PZ-57	11/4/2021	522849.9	2306107.5	166.54	169.35	107.0	97.0	70.0	Bedrock	Downgradient

Notes:
(1) NAD83 indicates feet (ft) referenced to the North American Datum of 1983 (2011). Coordinates are from June 15, 2020 re-survey of the piezometers by McKim & Creed, Inc.
(2) NAVD88 indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988. Elevations are from June 15, 2020 re-survey of the piezometers by McKim & Creed, Inc.
(3) Screen elevations calculated using depth below land surface and ground surface elevations from the June 2020 re-survey.
(4) Monitoring well PZ-23 was abandoned on 9/10/2019 and was replaced with new monitoring well PZ-23A on 3/10/2020.

TABLE 2
SUMMARY OF PIEZOMETER CONSTRUCTION
Plant Mitchell
Ash Ponds A, 1 and 2
Putney, Georgia

Well Name	Installation Date	Northing[1]	Easting[1]	Ground Surface Elevation (feet NAVD88) (Prior to June 2020 Re-survey)	Ground Surface Elevation (feet NAVD88)[2] (June 2020 Re-survey)	Top of Casing Elevation (feet NAVD88) (Prior to June 2020 Re-survey)	Top of Casing Elevation (feet NAVD88)[2] (June 2020 Re-survey)	Top of Screen Elevation (feet NAVD88)[3]	Bottom of Screen Elevation (feet NAVD88)[3]	Total Well Depth on Construction Log (feet below land surface)	Lithology Screened
PZ-01R	2/10/2016	524398.0[4]	2306492.9[4]	188.2	not surveyed[4]	191.87	not surveyed[4]	132.2	122.2	66.7	Overburden (Clay)/Bedrock
PZ-02R	2/3/2016	522696.6[4]	2306666.5[4]	188.5	not surveyed[4]	191.66	not surveyed[4]	131.6	121.6	67.2	Overburden (Clay)/Bedrock
PZ-2S	6/10/2014	526066.7	2308163.4	175.0	175.63	178.60	178.61	131.6	121.6	54.4	Overburden (Sandy Clay)
PZ-3D	5/28/2014	525373.2	2307918.1	187.7	188.08	190.82	190.98	110.5	100.5	88.0	Bedrock
PZ-4D	5/29/2014	524198.2	2308009.5	187.7	188.25	190.84	191.10	142.6	132.6	56.0	Bedrock
PZ-6S	6/13/2014	522254.0	2307207.5	186.2	186.52	189.34	189.47	148.9	138.9	48.0	Overburden (Clay)
PZ-8D	6/5/2014	521442.1	2305207.9	166.7	167.24	170.27	170.35	100.6	90.6	77.0	Bedrock
PZ-9D	6/4/2014	521770.9	2305127.5	162.6	163.18	166.08	166.16	126.6	116.6	47.0	Bedrock
PZ-10S	6/3/2014	522465.8	2305401.6	172.3	172.64	175.51	175.63	137.0	127.0	46.0	Bedrock
PZ-11S	6/12/2014	523112.9	2305532.1	188.2	188.71	191.57	191.69	141.1	131.1	58.0	Bedrock
PZ-12S	6/4/2014	523794.9	2305676.8	169.8	170.93	173.19	173.92	133.3	123.3	48.0	Bedrock
PZ-20	7/14/2016	524025.0	2306152.6	170.4	170.62	173.43	173.44	121.1	111.1	60.0	Bedrock
PZ-21	7/29/2016	524639.5	2306932.0	176.7	177.08	179.83	179.84	117.1	107.1	70.0	Bedrock
PZ-22	7/28/2016	524622.4	2307749.0	184.5	184.76	187.68	187.69	134.8	124.8	60.0	Bedrock
PZ-24A	3/6/2020	523151.8	2307445.9	192.2	192.25	195.07	194.97	142.3	132.3	60.0	Bedrock
PZ-27	10/4/2016	522440.4	2305235.1	161.5	161.88	164.40	164.58	123.6	113.6	48.3	Bedrock
PZ-28	10/13/2016	522953.9	2305347.3	163.0	163.49	165.67	165.96	126.5	116.5	47.0	Bedrock
PZ-29	10/4/2016	523857.8	2305593.0	170.0	170.42	172.95	173.18	123.9	113.9	56.5	Bedrock
MW-102	2/22/1995	524508.2	2306153.6	168.0	168.10	170.75	170.93	132.0	122.8	45.9	Bedrock
MW-108	2/21/1995	521561.7	2306874.5	183.0	182.75	185.59	185.47	145.1	136.0	47.4	Bedrock
MW-111	2/23/1995	521618.2	2305308.8	165.3	165.28	168.00	168.06	127.8	118.8	47.0	Bedrock
MW-113	2/21/1995	522357.4	2305578.4	172.1	171.88	174.76	174.61	129.6	120.1	52.4	Bedrock
MW-115[5]	2/21/1995	522837.4	2306080.2	166.2	166.23	168.97	169.05	88.6	79.5	87.3	Bedrock
MW-116	2/23/1995	523649.9	2306082.5	169.0	168.93	171.86	171.69	100.7	94.3	75.0	Bedrock

Notes:
(1) NAD83 indicates feet (ft) referenced to the North American Datum of 1983 (2011). Coordinates are from June 15, 2020 re-survey of the piezometers by McKim & Creed, Inc.
(2) NAVD88 indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988. Elevations are from June 15, 2020 re-survey of the piezometers by McKim & Creed, Inc.
(3) Screen elevations calculated using depth below land surface and ground surface elevations from the June 2020 re-survey.
(4) Coordinates for piezometers PZ-01R and PZ-02R are from before the June 2020 re-survey as the piezometers were not accessible due to construction activities and were not re-surveyed in June 2020.
(5) Piezometer MW-115 was abandoned on 11/3/2021.

TABLE 3
GROUNDWATER SAMPLING EVENTS
Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well ID	Hydraulic Location	Summary of Sampling Events	Status of Monitoring Well
		September 14-16, 2021	
Purpose of Sampling Event		Assessment	
ASH PONDS MONITORING WELL NETWORK			
PZ-1D	Upgradient	X	Assessment Monitoring
PZ-2D	Upgradient	X	Assessment Monitoring
PZ-31	Upgradient	X	Assessment Monitoring
PZ-32	Upgradient	X	Assessment Monitoring
PZ-7D	Downgradient	X	Assessment Monitoring
PZ-14	Downgradient	X	Assessment Monitoring
PZ-15	Downgradient	X	Assessment Monitoring
PZ-16	Downgradient	X	Assessment Monitoring
PZ-17	Downgradient	X	Assessment Monitoring
PZ-18	Downgradient	X	Assessment Monitoring
PZ-19	Downgradient	X	Assessment Monitoring
PZ-23A	Downgradient	X	Assessment Monitoring
PZ-25	Downgradient	X	Assessment Monitoring
PZ-33	Downgradient	X	Assessment Monitoring

Notes:
X - indicates well sampled during event
Monitoring well PZ-23 was abandoned on 9/10/2019 and was replaced with new monitoring well PZ-23A on 3/10/2020.

TABLE 4
SUMMARY OF GROUNDWATER ELEVATIONS
Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well ID	Top of Casing Elevation (feet NAVD88) (Elevations prior to June 2020 Re-survey)	Top of Casing Elevation (feet NAVD88)[1] (June 2020 Re-survey Elevations)	Depth to Water (ft below TOC)[2]	Groundwater Elevation (feet NAVD88)[3]
Measurement Date			9/13/2021	9/13/2021
MW-102	170.75	170.93	31.61	139.32
MW-108	185.59	185.47	45.76	139.71
MW-111	168.00	168.06	30.15	137.91
MW-113	174.76	174.61	34.40	140.21
MW-115	168.97	169.05	30.46	138.59
MW-116	171.86	171.69	32.85	138.84
PZ-1D	196.21	196.44	52.29	144.15
PZ-01R	191.87	Not surveyed[4]	52.61	139.26
PZ-2D	178.39	178.51	35.67	142.84
PZ-02R	191.66	Not surveyed[4]	52.05	139.61
PZ-2S	178.60	178.61	35.71	142.90
PZ-3D	190.82	190.98	48.49	142.49
PZ-4D	190.84	191.10	49.17	141.93
PZ-6S	189.34	189.47	19.91	169.56
PZ-7D	173.13	173.08	34.15	138.93
PZ-8D	170.27	170.35	32.33	138.02
PZ-9D	166.08	166.16	27.94	138.22
PZ-10S	175.51	175.63	36.45	139.18
PZ-11S	191.57	191.69	52.75	138.94
PZ-12S	173.19	173.92	35.64	138.28
PZ-14	183.62	183.46	43.80	139.66
PZ-15	170.10	170.37	32.26	138.11
PZ-16	173.71	173.92	35.01	138.91
PZ-17	172.66	172.91	33.63	139.28
PZ-18	169.78	170.11	30.74	139.37
PZ-19	171.96	172.05	32.92	139.13
PZ-20	173.43	173.44	34.30	139.14
PZ-21	179.83	179.84	39.24	140.60
PZ-22	187.68	187.69	46.04	141.65
PZ-23A	191.91	191.85	49.25	142.60
PZ-24A	195.07	194.97	54.21	140.76
PZ-25	171.12	171.14	31.82	139.32
PZ-27	164.40	164.58	25.91	138.67
PZ-28	165.67	165.96	26.88	139.08
PZ-29	172.95	173.18	35.03	138.15
PZ-31	182.86	182.96	38.84	144.12
PZ-32	180.72	180.75	37.78	142.97
PZ-33	189.52	189.61	49.55	140.06

Notes:

(1) NAVD88 indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988. Elevations are from June 15, 2020 re-survey of the piezometers by McKim & Creed, Inc.

(2) TOC - Top of Casing

(3) Groundwater elevations for September 2021 are calculated using TOC elevations from the June 15, 2020 re-survey.

(4) TOC elevations for piezometers PZ-01R and PZ-02R are from before the June 2020 re-survey as the piezometers were not accessible due to construction activities and were not re-surveyed in June 2020.

TABLE 5
GROUNDWATER FLOW VELOCITY CALCULATIONS
Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Potentiometric Map Date	Water-Bearing Zone	Location	Groundwater Elevations in Well Pairs (h_1, h_2) (feet)		Change in Elevation (Δh) (feet)	Distance Measured (L) (feet)	Hydraulic Gradient (i) (feet/feet)	Average Hydraulic Conductivity (K) (feet/day)	Estimated Effective Porosity (n_e)	Calculated Groundwater Flow Velocity (V) (feet/day)	Calculated Groundwater Flow Velocity (V) (feet/year)
September 2021	Limestone	PZ-23A to PZ-18	142.60	139.37	3.23	1740	0.002	3.04	0.2	0.03	10.30
September 2021	Limestone	PZ-32 to PZ-21	142.97	140.60	2.37	1620	0.001	3.04	0.2	0.02	8.12

Notes:

1. In-situ hydraulic conductivity (slug) tests in the bedrock at the Site ranged from 1.08 to 5.81 feet/day with an average of 3.04 feet/day.
2. Effective porosity of 20% was selected for Ocala Limestone from Hydrology and Model Evaluation of the Principal Artesian Aquifer, Dougherty Plain, Southwest Georgia: Georgia Geologic Survey Bulletin 97 (Hayes, L.R., Maslia, M.L., Meeks, W.C., 1983)

TABLE 6
ANALYTICAL DATA SUMMARY APPENDIX III - SEPTEMBER 2021
Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well Name	Sample Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS
PZ-1D	9/14/2021	<0.0086	51.0	2.9	<0.050	7.45	2.6	150
PZ-2D	9/14/2021	0.011 (J)	13.4	2.5	0.089 (J)	8.96	3.8	71.0
PZ-7D	9/16/2021	0.18	109	3.3	<0.050	6.96	41.8	307
PZ-14	9/15/2021	0.022 (J)	106	3.9	<0.050	6.94	11.4	292
PZ-15	9/15/2021	0.16	94.0	5.8	<0.050	7.09	73.4	326
PZ-16	9/15/2021	0.16	91.0	5.6	<0.050	7.12	37.8	270
PZ-17	9/16/2021	0.22	102	4.2	0.052 (J)	7.03	70.9	330
PZ-18	9/16/2021	0.31	135	4.7	<0.050	6.85	86.9	419
PZ-19	9/16/2021	0.46	137	3.5	0.067 (J)	6.77	72.7	450
PZ-23A	9/15/2021	0.15	147	2.8	<0.050	6.72	46.8	422
PZ-25	9/15/2021	0.17	84.4	1.8	0.14	7.05	37.8	272
PZ-31	9/15/2021	<0.0086	101	2.8	<0.050	6.99	0.64 (J)	256
PZ-32	9/14/2021	0.012 (J)	67.8	2.2	<0.050	7.31	1.8	179
PZ-33	9/16/2021	0.31	92.0	1.5	<0.050	7.10	40.4	296

Notes:

1. Results for metals and anions are reported in milligrams per liter (mg/L). Results for pH are reported in standard units (su).
2. < indicates the constituent was not detected above the analytical method detection limit (MDL).
3. (J) indicates the constituent was detected between the analytical method detection limit and laboratory reporting limit. The value followed by (J) is qualified by the laboratory as estimated.
4. TDS indicates total dissolved solids.

TABLE 7
ANALYTICAL DATA SUMMARY APPENDIX IV - September 2021
Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well Name	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium	Selenium	Thallium
PZ-1D	9/14/2021	<0.00078	<0.0011	0.013	<0.000054	<0.00011	0.0020 (J)	<0.00039	<0.050	<0.00089	<0.00073	<0.000078	0.00086 (J)	0.532 (U)	<0.0014	<0.00018
PZ-2D	9/14/2021	0.0011 (J)	0.0014 (J)	0.0041 (J)	<0.000054	<0.00011	0.0084	<0.00039	0.089 (J)	<0.00089	0.0013 (J)	<0.000078	0.00077 (J)	0.972 (U)	<0.0014	<0.00018
PZ-7D	9/16/2021	<0.00078	<0.0011	0.0062	<0.000054	<0.00011	0.0025 (J)	<0.00039	<0.050	<0.00089	0.0025 (J)	<0.000078	<0.00074	0.382 (U)	<0.0014	<0.00018
PZ-14	9/15/2021	<0.00078	<0.0011	0.014	<0.000054	<0.00011	0.0014 (J)	<0.00039	<0.050	<0.00089	<0.00073	<0.000078	<0.00074	0.872 (U)	<0.0014	<0.00018
PZ-15	9/15/2021	<0.00078	<0.0011	0.045	<0.000054	<0.00011	<0.0011	<0.00039	<0.050	<0.00089	0.0013 (J)	<0.000078	<0.00074	0.729 (U)	<0.0014	0.00020 (J)
PZ-16	9/15/2021	<0.00078	<0.0011	0.032	<0.000054	<0.00011	0.0011 (J)	<0.00039	<0.050	<0.00089	<0.00073	<0.000078	<0.00074	0.721 (U)	<0.0014	<0.00018
PZ-17	9/16/2021	<0.00078	<0.0011	0.064	<0.000054	<0.00011	<0.0011	<0.00039	0.052 (J)	<0.00089	0.0021 (J)	<0.000078	<0.00074	0.377 (U)	<0.0014	0.00034 (J)
PZ-18	9/16/2021	<0.00078	<0.0011	0.022	<0.000054	<0.00011	<0.0011	<0.00039	<0.050	<0.00089	0.0023 (J)	<0.000078	<0.00074	0.681 (U)	<0.0014	<0.00018
PZ-19	9/16/2021	<0.00078	<0.0011	0.053	<0.000054	<0.00011	<0.0011	<0.00039	0.067 (J)	<0.00089	0.013 (J)	<0.000078	0.0021 (J)	1.40	0.0033 (J)	0.00066 (J)
PZ-23A	9/15/2021	<0.00078	<0.0011	0.037	<0.000054	<0.00011	0.0019 (J)	<0.00039	<0.050	<0.00089	0.00085 (J)	<0.000078	<0.00074	0.742 (U)	0.0024 (J)	<0.00018
PZ-25	9/15/2021	<0.00078	<0.0011	0.11	<0.000054	<0.00011	<0.0011	0.0020 (J)	0.14	<0.00089	0.0061 (J)	<0.000078	<0.00074	1.07 (U)	<0.0014	0.00066 (J)
PZ-31	9/15/2021	<0.00078	<0.0011	0.0066	<0.000054	<0.00011	0.0014 (J)	<0.00039	<0.050	<0.00089	<0.00073	<0.000078	<0.00074	0.0517 (U)	<0.0014	<0.00018
PZ-32	9/14/2021	0.0012 (J)	<0.0011	0.014	<0.000054	<0.00011	<0.0011	<0.00039	<0.050	<0.00089	<0.00073	<0.000078	<0.00074	0.680 (U)	<0.0014	<0.00018
PZ-33	9/16/2021	<0.00078	<0.0011	0.039	<0.000054	<0.00011	<0.0011	<0.00039	<0.050	<0.00089	<0.00073	<0.000078	<0.00074	0.184 (U)	<0.0014	<0.00018

Notes:

1. Results for metals are reported in milligrams per liter (mg/L).
2. < indicates the constituent was not detected above the analytical method detection limit.
3. (J) indicates the constituent was detected between the analytical method detection limit and laboratory reporting limit. Therefore, the value displayed (J) is qualified by the laboratory as an estimated number.
4. Radium units are in picocuries per liter (pci/L)
5. U indicates the constituent was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce as reliable of a value. Therefore, the value followed by U is qualified by the laboratory as estimated.

TABLE 8
STATISTICAL METHOD SUMMARY
Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

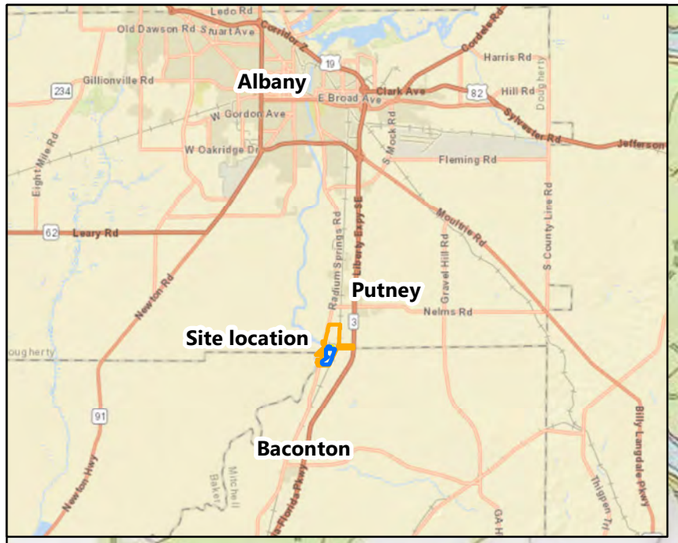
Statistical Methodology	Data Screening on Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available.
	Statistical Limits	Interwell statistical limits will be applied on a parameter basis, depending on the appropriateness of the method as determined by the Analysis of Variance.
	Prediction Limits	Parametric when data follow a normal or transformed normal distribution and when less than 50% non-detects, utilizing Kaplan Meier non-detect adjustment when applicable. Nonparametric when data sets contain greater than 50% non-detects or when data are not normally or transformed-normally distributed.
	Management of Non-Detects	When data contain less than 15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the practical quantitation 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.
	Confidence Intervals	Used in Assessment and Corrective Action monitoring.
	No Statistical Testing	Statistical testing is not required for parameters containing 100% non-detects (US EPA Unified Guidance, 2009, Chapter 6).
	Verification Resample Plan	Optional 1-of-2 with minimum of 8 samples per well for interwell testing.
	Optional	▪ Initial statistical exceedance warrants optional independent resampling within 90 days. ▪ If resample passes, well/parameter is not a confirmed statistically significant increase (SSI). ▪ If resample exceeds, well/parameter has a confirmed SSI. If no resample is collected, the original result is deemed verified.

TABLE 9
SUMMARY OF GROUNDWATER PROTECTION STANDARDS
Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Constituent	Units	MCL	Federal CCR Rule Specified Limit	Site-Specific Background September 2021	GWPS Based on Site-Specific Background as Required by GA EPD[2] September 2021
Antimony	mg/L	0.006		0.0035	0.006
Arsenic	mg/L	0.01		0.005	0.01
Barium	mg/L	2.0		0.05193	2.0
Beryllium	mg/L	0.004		0.0005	0.004
Cadmium	mg/L	0.005		0.0005	0.005
Chromium	mg/L	0.1		0.011	0.1
Cobalt [1]	mg/L		0.006	0.005	0.005
Fluoride	mg/L	4.0		0.29	4.0
Lead [1] [3]	mg/L		0.015	0.001	0.001
Lithium [1] [4]	mg/L		0.04	0.03	0.03
Mercury	mg/L	0.002		0.0002	0.002
Molybdenum [1]	mg/L		0.1	0.01	0.01
Combined Radium	piC/L	5.0		1.73	5.0
Selenium	mg/L	0.05		0.005	0.05
Thallium	mg/L	0.002		0.001	0.002

Notes:
mg/L - milligrams per liter
piC/L - picoCuries per liter
MCL - Maximum Contaminant Level
Federal CCR Rule 40 CFR § 257.95 (h) Amendment July 30, 2018 lists levels for cobalt, lead, lithium, and molybdenum.
GWPS - Groundwater Protection Standard
(1) Constituent without an established MCL. The background limits were used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia Environmental Protection Division (EPD) Rule 391-3-4-.10(6)(a).
(2) Under the existing Georgia EPD Rules, the GWPS is: (i) the MCL, (ii) where the MCL is not established, the background concentration, or (iii) background concentrations for constituents where the background level is higher than the MCL.
(3) Currently, there is no MCL established for lead. The value listed is the established USEPA Action Level for drinking water.
(4) The background tolerance limit (TL) used to evaluate GWPS for lithium is equal to the most recent laboratory specified reporting limit (RL). Per the Statistical Analysis Plan, and in accordance with the Unified Guidance, a non-parametric limit approach was used since the data set contains greater than 50% non-detect results for this analyte. Under this approach, the TL equals the highest value reported, for which is the laboratory RL. However, the highest laboratory RL used was 0.05 mg/L. As a result, we have modified the GWPS to be equal to the most recently used RL (0.03 mg/L).

FIGURES



N

Legend

- Ponds 1 and 2
- Approximate Property Boundary
- Pond A

0 0.5 1 Miles

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),

Plant Mitchell
Putney, Georgia

2021 Semi-Annual Groundwater Monitoring and Corrective Action Report

Site Location Map

Prepared By-Date: JCD - 12/1/2021	
Checked By-Date: JMQ - 12/1/2021	wood.
Project Number: 6122160170	Figure: 1

N

PZ-31

PZ-1D

PZ-32

PZ-2D

ASH POND A

PZ-25

ASH POND 1

PZ-23A

PZ-19

PZ-18

PZ-57

PZ-17

PZ-33

PZ-16

ASH POND 2

PZ-15

PZ-7D

PZ-14

Legend

- Monitoring Network Well
- Approximate CCR Permit Boundary
- Approximate Property Boundary
- Approximate Ash Pond Boundary

0 600 1,200 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Plant Mitchell
Putney, Georgia

2021 Semi-Annual Groundwater Monitoring and Corrective Action Report

Monitoring Network Well Location Map

Prepared By-Date: JCD - 12/20/2021	
Checked By-Date: JMQ - 12/20/2021	
Project Number: 6122160170	wood.

Figure: 2

Notes:

1. Well PZ-2S is screened in the Overburden and its groundwater elevation was not used for contouring

2. * - Well not used in contouring.

3. September 2021 groundwater elevations calculated using top of well casing elevations from the June 2020 re-surveying except for PZ-01R and PZ-02R which were not re-surveyed in June 2020 because construction prevented access to the wells.

N

PZ-31 144.12
PZ-1D 144.15
PZ-32 142.97
PZ-2S 142.90
PZ-2D 142.84
PZ-3D 142.49
ASH POND A
PZ-22 141.65
MW-102 139.32
PZ-25 139.32
PZ-01R 139.26
PZ-21 140.60
PZ-4D 141.93
PZ-20 139.14
PZ-29 138.15
PZ-12S 138.28
MW-116 138.84
PZ-19 139.13
ASH POND 1
PZ-23A 142.60
PZ-11S 138.94
PZ-18 139.37
PZ-24A 140.76
PZ-28 139.08
MW-115 138.59*
PZ-02R 139.61
PZ-17 139.28
PZ-10S 139.18
MW-113 140.21
PZ-27 138.67
PZ-16 138.91
ASH POND 2
PZ-33 140.06
PZ-9D 138.22
MW-111 137.91*
PZ-15 138.11
MW-108 139.71
PZ-14 139.66
PZ-8D 138.02
PZ-7D 138.93

142 143 144 142 143 142 141 140 142 139 142 142 141 140 140 139

Legend

- 138.94 Groundwater Elevation (ft NAVD88)
- Groundwater Elevation Well (Piezometer)
- Groundwater Quality Monitoring Well in Monitoring Network
- Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour (ft NAVD88)
- Approximate Property Boundary
- Approximate CCR Permit Boundary
- Approximate Ash Pond A Location

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

0 600 1,200 Feet

Plant Mitchell
Putney, Georgia

2021 Semi-Annual Groundwater Monitoring and Corrective Action Report

Potentiometric Surface Upper Bedrock - September 2021

Prepared By-Date: JCD - 2/4/2022	Figure: 3
Checked By-Date: RRQ - 2/4/2022	
Project Number: 6122160170	

wood.

APPENDIX A

WELL INSTALLATION AND ABANDONMENT

Groundwater Monitoring Well Installation and Abandonment Report

Georgia Power Company – Plant Mitchell

Ash Ponds A,1, and 2
Project No.: 6122160170

Prepared for:

Georgia Power

Atlanta, Georgia

2/28/2022

Professional Groundwater Scientist Certification

I certify that I am a qualified ground-water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction. We certify that the information included is to the best of our knowledge and belief, true, accurate and complete. In preparing this report, we have relied on information provided by Southern Company Services and Georgia Power.

Gregory J. Wrenn, P.E.
Registered Professional Engineer
Professional Engineer No. 025565

Date: 2-28-2022

Rhonda N. Quinn, P.G.
Registered Professional Geologist
Georgia Registration No. 1031

Date: 2-28-2022

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1.0 INTRODUCTION

The Georgia Power Company (GPC) Plant Mitchell Ash Ponds A, 1, and 2 are located on the boundary of Dougherty and Mitchell Counties off Radium Springs Road (Georgia Route 3), approximately 2 miles southwest of Putney and 10 miles south of Albany, and east of the Flint River. A Permit Application was submitted to GA EPD in November 2018 and is currently being revised per GA EPD comments. Groundwater monitoring has been initiated to meet compliance with GA EPD Coal Combustion Residuals (CCR). A well and piezometer network around each of the active disposal cells monitors the groundwater conditions at the Site. The monitoring well and piezometer locations are shown in **Figure 1: Location of New Monitoring Well PZ-57**. The survey data for well PZ-57 is presented in **Appendix A: Well Survey Document**.

As part of the review of permit application, the Georgia Environmental Protection Division (GA EPD) requested the addition of existing piezometer MW-115 into the current groundwater monitoring network with the intent to include a monitoring point between existing monitoring wells PZ-17 and PZ-18. Piezometer MW-115 is not suitable for groundwater quality monitoring due to lack of its use since the late 1990's except for water level measurements. Piezometer MW-115 was abandoned on November 3, 2021. The piezometer MW-115 was replaced with new CCR monitoring network monitoring well PZ-57 on November 4, 2021, adjacent to the location of the abandoned piezometer.

This report provides details for the drilling and installation of monitoring well PZ-57 installed in November 2021. The well construction details are included in **Table 1: Summary of Monitoring Well Construction** and its location is shown in **Figure 1.** The surveyed coordinates and elevations of the well are provided in a certified well survey report in **Appendix A.** The lithologic boring log and well construction log are provided in **Appendix B: Well Construction and Boring Logs.** The abandonment of existing downgradient bedrock piezometer MW-115 is also presented in this report.

2.0 DRILLING AND WELL INSTALLATION

The following sections provide details and description of drilling methodology, materials and installation procedures used in constructing the monitoring well PZ-57. Monitoring well construction details are summarized in **Table 1**.

2.1 Drilling Method

Wood provided oversight and documented the drilling and installation of monitoring well PZ-57 by Cascade Drilling, under contract with Southern Company, from November 2 through November 4, 2021. A copy of the Water Well Contractor's performance bond is provided in **Appendix B**. The drilling was performed using roto-sonic technology with a Terra Sonic, compact, track-mounted drill rig. A hand auger was used to excavate the upper 10 feet of the well location to provide clearance of potential underground utilities.

Following subsurface clearance, a 4-inch diameter sampling core barrel and tooling, followed by a 6-inch override (outer) casing, was advanced via sonic methodology to a final depth of 70.0 feet (96.5 feet above North America Vertical Datum of 1988 (NAVD88)) for the purpose of collecting soil and rock for lithologic characterization and subsequent well installation. Soil and/or rock were collected continuously, in core runs up to 10 feet, from near the ground surface to the boring termination depth. Upon completion of a core run, prior to retracting the core barrel, 6-inch override (outer) casing was advanced over the 4-inch core barrel and tooling to maintain borehole integrity. Once the override casing was in place, the core barrel was retracted from the borehole and the soil and/or rock sample were extruded into a plastic sleeve and provided to the Wood field geologist for characterization, documentation, photographing, and archival in wooden sample storage boxes. After sample retrieval, the core barrel was advanced, and another core run was completed. This process was continued until the target depth was reached where bedrock was encountered.

Upon reaching the target depth, the 6-inch override casing was used to flush/clean-out the borehole and left in place for well construction. The well was installed directly through the override casing. The screen and casing (riser) were placed in the override casing and the annular space was filled (i.e., emplacement of the filter pack, bentonite, and grout) as the override casing was retracted.

2.2 Screened Interval

Well PZ-57 is screened 26 feet into bedrock and was constructed with 10 feet of slotted screen as shown in the Well Construction Log provided in **Appendix B**. The former piezometer, MW-115, was constructed with a screened interval depth of 77.6 to 86.7 feet below ground surface (bgs) (88.6 to 79.5 feet, NAVD88) which was a deeper elevation than the PZ-57 screened interval

(107.0 to 97.0 feet, NAVD88). Well PZ-57 was installed to a shallower depth due to the depth to bedrock being shallower at the new well location than the MW-115 location.

2.3 Well Casing and Screens

The monitoring well is constructed of 2-inch inside diameter Schedule 40 polyvinyl chloride (PVC) casing (riser) and pre-packed Number 10 slot (0.010-inch aperture) screen. The pre-pack screens are comprised of a 10-foot-long section of slotted PVC "U-pack" pre-pack screen. Each pre-pack screen used in the construction of the well was manually filled with sand and then attached to the riser section of the well casing. Well construction materials are designed to be sufficiently durable to resist chemical and physical degradation and not interfere with the quality of groundwater samples. The casing and screen sections were flush-threaded and did not require the use of solvent or adhesive to construct the well.

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.

2.4 Filter Pack

The filter pack material is designed to be chemically inert, clean, well-graded, well-rounded, dimensionally stable, silica (quartz) sand of which the 80 to 90 percent retained size is 0.010-inch diameter (the screen aperture). The filter pack sand used for the construction of the monitoring well was the #1 filter sand from Southern Products & Silica Co. The filter pack material was emplaced in the annular space between the outside of the pre-pack screen and borehole wall to ensure an adequate thickness of filter pack material between the well and the formation. The filter pack was extended approximately four feet above the top of the screen. After installing the filter pack, the well was pumped to allow settlement of the filter pack material, prior to installing the annular seal. The filter pack depth/interval is documented in well construction log provided in **Appendix B**.

2.5 Annular Seal

After installing the filter pack, a bentonite seal was constructed to a thickness coinciding with the observed elevation of the top of bedrock during drilling. Approximately thirteen feet of bentonite pellets were emplaced in the annular space directly above the filter pack to seal the annulus and prevent vertical flow of water along the well casing. The bentonite pellets were placed from the top of the filter pack to a little over a foot above the top of the bedrock. The bentonite used for

the construction of the well was 3/8-inch, time-release coated pellets (PDS Pel-Plug). The bentonite pellets were allowed to hydrate and settle in accordance with the manufacturer's recommendations prior to adding more well sealing materials into the annular space above the pellets. The bentonite seal was subsequently extended from the top of bedrock to the top of the water table at approximately 25 feet below ground surface by the addition of 3/8-inch bentonite chips (Haliburton Hole-plug). The bentonite chips were hydrated.

After the bentonite chips were adequately hydrated, the remaining annular space was sealed using AQUAGUARD by Baroid Industrial Drilling Products, a sodium bentonite blended grout. The grout was prepared in accordance with manufacturer's instructions and emplaced from the top of the bentonite seal to the near ground surface via tremie method. The grout was injected at a low velocity as to not displace the bentonite seal and the tremie pipe was raised as grout filled the annular space. Grout was injected via tremie method from a depth of 25 feet to within two feet of ground surface.

A concrete seal extends from approximately two feet below ground surface to grade and was formed into a slightly mounded cement apron extending outward to help direct rainwater run-off away from the well. The well pad dimensions were 4 feet by 4 feet with a thickness of 4 inches.

2.6 Cap and Protective Casing

Well PZ-57 was fitted with a sealable cap and a lockable, 4-inch square, steel, above-grade (stick-up) protective casing installed over the well to protect the PVC riser from damage and secure it from unauthorized access. The annular space between the well riser and protective casing was filled with pea-size gravel and a small weephole was drilled near the base to allow for drainage from inside the protective casing. Additionally, bollards were installed at the corners of the concrete pad to protect the well. Prior to leaving the site, each well was secured with a padlock, keyed specific to the Site. Well construction details are documented in **Appendix B**.

3.0 WELL DEVELOPMENT

Well PZ-57 was developed using an electric submersible pump to restore the natural hydraulic conductivity of the formation and to remove fine-grained sediment to help ensure low-turbidity groundwater samples. The well was alternately surged and purged until visually clear of particulates. Groundwater quality parameters turbidity, pH, specific conductivity, temperature, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were monitored for stabilization during development to verify that the well was adequately developed.

Development of the groundwater monitoring well continued until criteria indicating adequate development was achieved. Development is generally recognized as being complete when the well yields water with a turbidity less than 5 Nephelometric Turbidity Units (NTU) and the pH and specific conductivity has stabilized (i.e., pH within 0.1 standard unit and specific conductivity within 5% over three consecutive measurements). The development forms are included in **Appendix C: Well Development Forms**.

Prior to deploying the development pump into the well, the pump was decontaminated and fitted with new disposable tubing. New disposable, nitrile gloves were worn throughout the development process, including when initially deploying the pump, handling the pump, and tubing while surging, and during decontamination activities.

4.0 SURVEY

Well location, top of casing (TOC) elevation, and ground surface elevation were surveyed by McKim & Creed, Inc. Northings and easting are in feet relative to Georgia State Plane, West Zone, North America Datum of 1983 (NAD 83-2011) and surveyed with a horizontal accuracy of 0.5 feet. Top of casing and ground surface elevations are in feet relative to North American Vertical Datum of 1988 (NAVD 88) and surveyed with a vertical accuracy of 0.01 feet. Survey data are included in **Table 1**. Well survey documents are provided in **Appendix A**.

5.0 WELL ABANDONMENT

Piezometer MW-115 was abandoned following US EPA Region 4 guidance for decommissioning procedures. The piezometer was over-drilled utilizing rotosonic drilling with 4-inch core barrel and 6-inch override casing to the depth of the water table (approximately 26 feet below ground surface). The screened interval of the piezometer up to the depth of the water table was filled with bentonite pellets and hydrated. The top 20 feet of the riser portion of the well casing was removed from the borehole. The riser section between 20 and 26 feet was destroyed during overdrilling. A bentonite grout mixture was emplaced from the water table up to ground surface utilizing the tremie method. Grouting ceased when the grout mixture daylighted at the surface as visible grout. The abandonment details for MW-115 are in **Appendix D: Well Abandonment Documents**.

6.0 GENERAL REFERENCES

Southern Company Services, Inc., 2016, Draft Monitoring Well Development Procedures, Birmingham, Alabama, March 2016.

United States Environmental Protection Agency, Region 4 Science and Ecosystem Support Division, January 16, 2018. Operating Procedure for Design and Installation of Monitoring Wells. SESDGUID-101-R2.

United States Environmental Protection Agency, Region 4 Laboratory Services and Applied Science Division, June 22, 2020. Operating Procedure for Field Equipment Cleaning and Decontamination. LSASDPROC-205-R4.

TABLE

TABLE 1
SUMMARY OF MONITORING WELL CONSTRUCTION
Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well	Installation Date	Northing [1]	Easting [1]	Top of Casing Elevation (feet NAVD88) [2]	Ground Surface Elevation (feet NAVD88) [2]	Top of Screen Elevation (feet NAVD88) [3]	Bottom of Screen Elevation (feet NAVD88) [3]	Screen Length (feet)	Total Well Depth Measured at Development (feet below TOC) [4]	Groundwater Zone Screened
PZ-57	11/4/2021	522849.92	2306107.52	169.35	166.54	107.0	97.0	10.0	73.4	Bedrock
MW-115 [5]	2/21/1995	522837.40	2306080.20	169.05	166.23	88.6	79.5	9.1	87.3	Bedrock

Notes:

(1) NAD83 indicates feet (ft) referenced to the North American Datum of 1983 (2011).

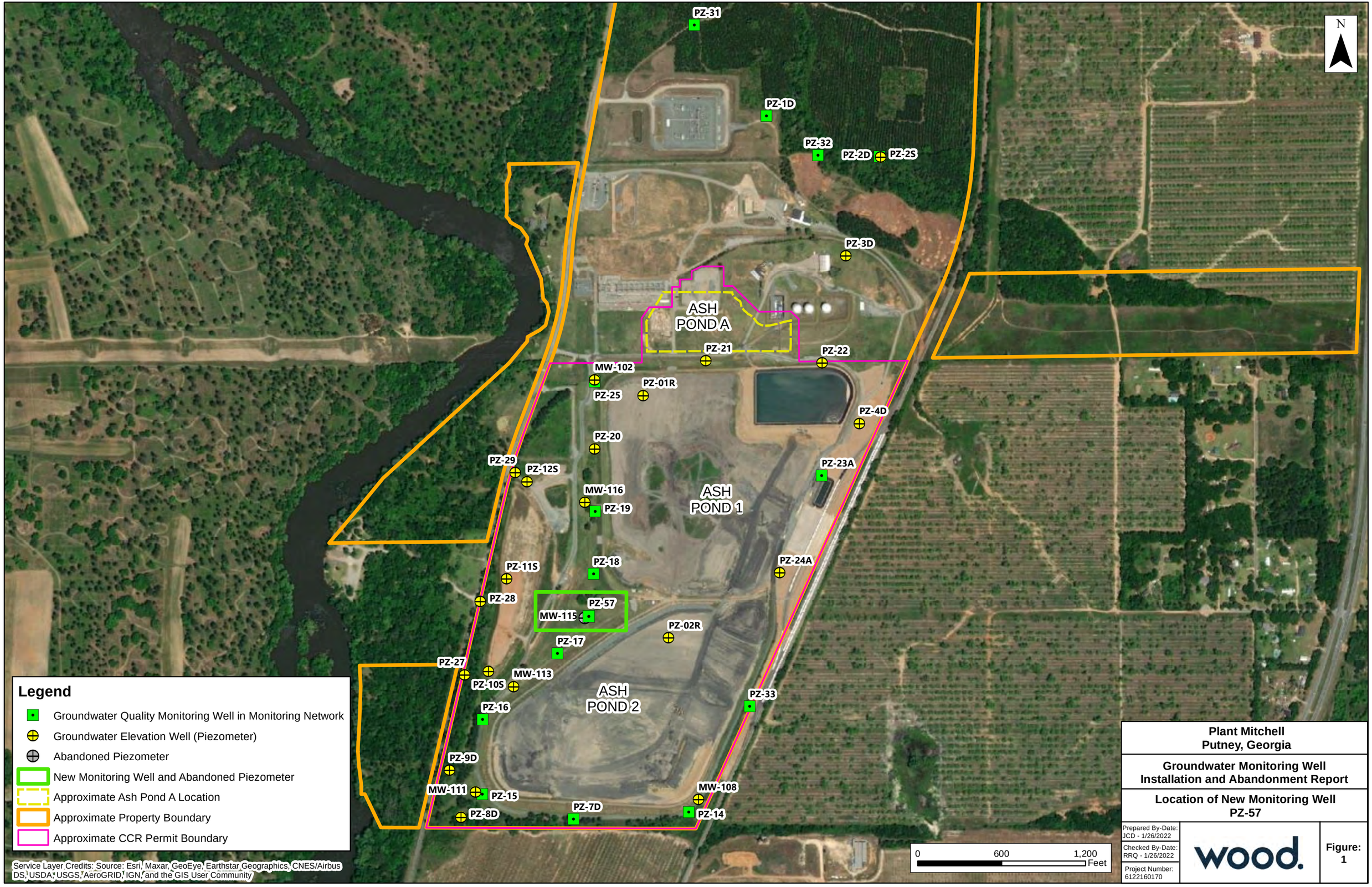
(2) NAVD88 indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.
Coordinates and Elevations for piezometer MW-115 are from the June 15, 2020 re-survey of the Site wells and piezometers by McKim & Creed, Inc.
Coordinates and Elevations for Well PZ-57 are from December 10, 2021 survey of the well by McKim & Creed, Inc.

(3) Screen elevations calculated using depth below land surface and ground surface elevations from the June 2020 re-survey and December 2021 survey.

(4) TOC indicates top of casing

(5) Piezometer MW-115 was abandoned on November 3, 2021.

FIGURE



Plant Mitchell
Putney, Georgia

Groundwater Monitoring Well Installation and Abandonment Report

Location of New Monitoring Well PZ-57

Prepared By-Date: JCD - 1/26/2022	wood.	Figure: 1
Checked By-Date: RRQ - 1/26/2022		
Project Number: 6122160170		

APPENDIX A

WELL SURVEY DOCUMENT

McKIM&CREED

ENGINEERS
SURVEYORS
PLANNERS

Date: December 10, 2021

To: Gregory Wrenn
Project Manager
Wood Environment & Infrastructure Solutions, Inc.
dreynolds@charah.com

From: Scott Watkins
Geomatics Project Manager
McKim & Creed, Inc.
swatkins@mckimcreed.com

RE: Plant Mitchell Monitoring Well Locations

Horizontal grid coordinates were established with eGPS VRS/RTK system, using a Trimble R8 Model 3 GPS/GNSS receiver and a Trimble S6 robotic total station, to achieve +/-0.25' accuracy. Horizontal positions are referenced to the Georgia state plane west zone in US Survey Feet, NAD 83(2011).

Vertical coordinates were established with differential leveling, using a Trimble Dini Digital level. All vertical traverses achieved 0.01' or less closure. Vertical positions are referenced to NAVD88.

Georgia State Plane West Zone (NAD 83/2011), NAVD88

PZ57	522849.163	2306108.02	166.535	NAIL
PZ57	522849.92	2306107.52	169.346	TOP

4536 Nelson Brogdon Boulevard
Suite E-2
Sugar Hill, GA 30518

770.962.4125
770.962.4126 (fax)

www.mckimcreed.com

APPENDIX B

WELL CONSTRUCTION AND BORING LOGS

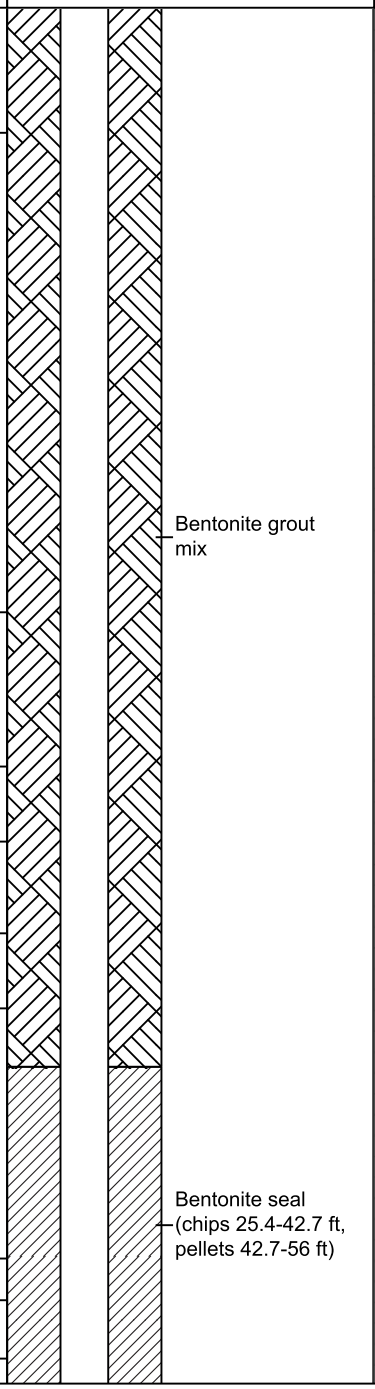
PZ-57 BORING LOG

PROJECT NUMBER 6122160170	**DRILLING COMPANY** Cascade Drilling	**COORDINATES** N , E
PROJECT NAME Plant Mitchell	**DRILLER** C. Franklin	**COORD SYS** Ga State Plane West (NAD 83)
CLIENT Georgia Power	**RIG TYPE/ METHOD** TSI CC150/ SONIC	**COMPLETION** Stick-up w/ protective casing
ADDRESS 5200 Radium Springs Rd, Albany GA	**DRILL CASING DIA.** 6-in override & 4-in core	**SURFACE ELEVATION** 166.54 ft NAVD 88
LOCATION Ash Pond 2	**BORING DEPTH** 70.0 ft	**WELL TOC** 169.35 ft NAVD 88

COMMENTS Start drilling on 11/2/2021 and complete drilling on 11/3/2021. Well construction completed on 11/4/2021 with installation of well cover and concrete pad.

LOGGED BY A. Shoredits
CHECKED BY R. Quinn

Depth (ft)	Samples	Sample Run (Recovery)	Material Description	USCS	Elevation (ft)
0	0-10	#1 (100%)	Hand auger utility clearance	SP	166
2			0-3 ft SAND with trace silt, black, medium dense, moist, top soil		164
4			3-10 ft CLAY with sand and silt, brown/tan/yellow/grey, medium stiff, medium plasticity, moist	CL-SC	162
6					160
8					158
10	10-20	#2 (95%)	Sandy CLAY, tan/grey/yellow, medium stiff, medium plasticity, moist, medium to fine grained sand		156
12					154
14					152
16			Clayey SAND, tan/yellow/red/orange, loose, moist	SC	150
18			SAND with trace clay, orange/tan, loose, moist, fine grained		148
20			CLAY, grey/red, very stiff, high plasticity, moist	CH	146
22	20-30	#3 (79%)	Sandy CLAY, grey/red/orange, medium stiff, medium plasticity, moist	CL	144
24			CLAY with trace sand, red/grey, stiff, medium plasticity, moist	CH	142
26			Clayey SAND, red/orange, medium dense, moist, variable clay and sand content	SC	140
28					138
30					136
32	30-40	#4 (85%)	CLAY, grey/green, very stiff, high plasticity, moist	CH	134
			Clayey SAND, tan/grey/brown, medium dense, moist	SC	
			CLAY with sand, red/brown/yellow, stiff, medium plasticity, dry	CL-SC	



Disclaimer This bore log is intended for environmental not geotechnical purposes.

produced by ESlog.ESdat.net on 19 Dec 2021

PZ-57 BORING LOG

Depth (ft)	Samples	Sample Run (Recovery)	Graphic Log	Material Description	USCS	Well Diagram	Elevation (ft)
34				Calcareous rock lens, white, dry, trace sand and clay	-		132
36				Clayey SAND, red/brown, medium dense, moist	SC		130
38				CLAY, blue/grey, very soft, low plasticity, sticky	CL		128
40	40-50	#5 (80%)		Clayey SAND, dark grey/brown, medium dense, moist, clay and sand mixture 43.3-43.6 ft clay lens	SC-CL		126
42							124
44				Calcareous rock mixed in with clays, dark grey/white, wet	-	Bentonite seal (chips 25.4-42.7 ft, pellets 42.7-56 ft)	122
46				Consolidated fossiliferous limestone, white, wet, porous, fizzes with hydrochloric acid Weathered rock clay lenses throughout from 50-70 ft Clay lenses appear to be 1 to 3 inches in thickness			120
48							118
50	50-60	#6 (64%)					116
52							114
54							112
56							110
58							108
60	60-70	#7 (100%)				Sand filter pack and pre-pack screen	106
62							104
64							102
66							100
68							98
70				Boring terminated in bedrock at 70.0 feet			96
72							

Disclaimer This bore log is intended for environmental not geotechnical purposes.

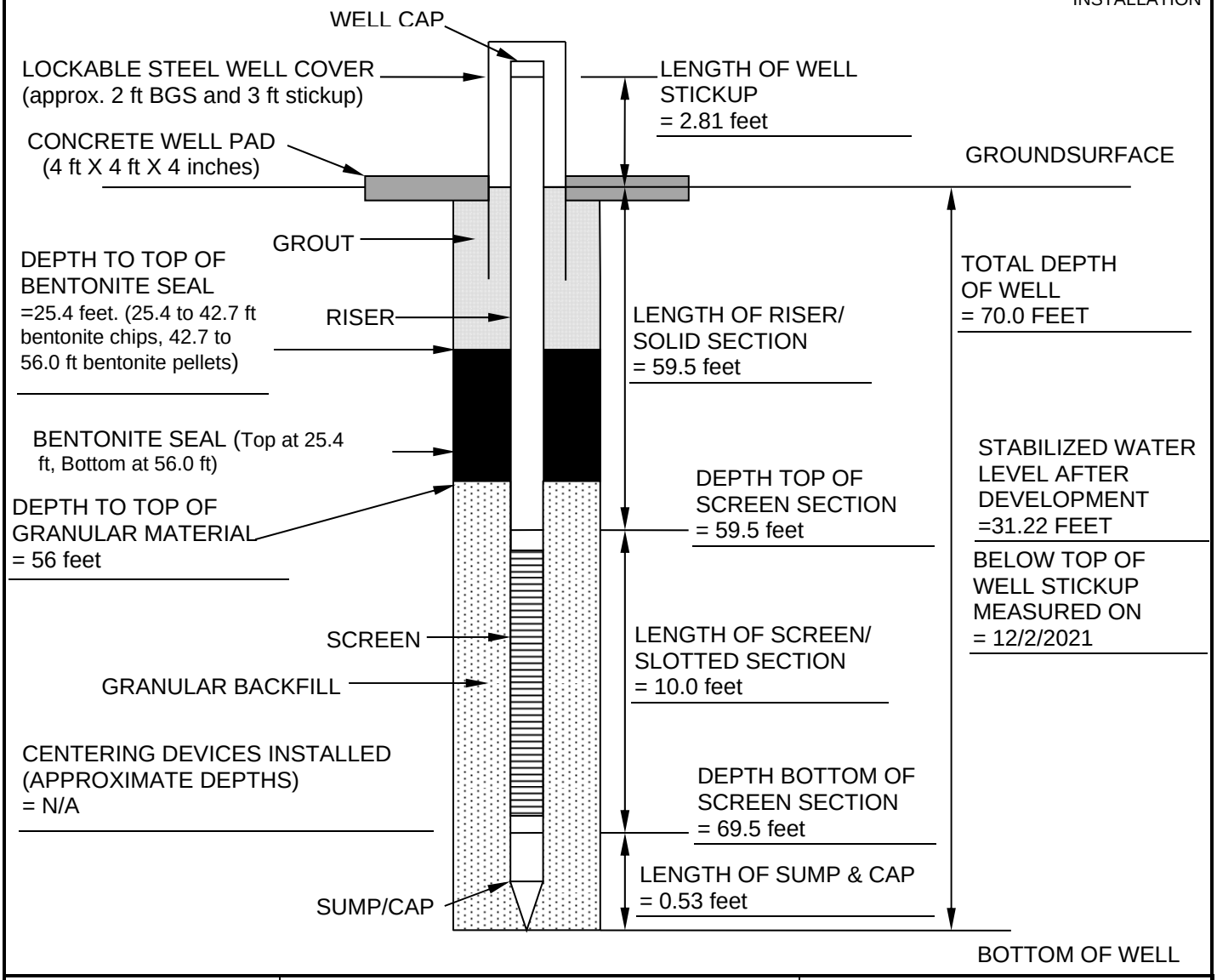
produced by ESlog.ESdat.net on 19 Dec 2021

WELL INSTALLATION RECORD

JOB NAME	**Plant Mitchell Ash Pond 2**	PROJECT NO.	**6122-16-0170**
WELL NUMBER	**PZ-57**	INSTALLATION DATE	**11/4/2021**
LOCATION*	**NORTH: 522849.92** **EAST: 2306107.52**	**GROUND ELEV: 166.54 feet NAVD88**	
WOOD FIELD REPRESENTATIVE	**A. Shoredits**	DRILLER/ CONTRACTOR	**Cascade**
GRANULAR BACKFILL MATERIAL	**#1 Silica Filter Sand**	DRILLING TECHNIQUE	**Rotosonic**
SCREEN MATERIAL	**2-inch I.D. Flush Joint Slotted PVC (Sch. 40)**	BOREHOLE DIAMETER	**± 6.5 inch**
SLOT SIZE	**0.010-inch Machine Cut**	REFERENCE POINT** ELEVATION*	**169.35 ft NAVD88**
RISER MATERIAL	**2-inch I.D. Flush joint Solid PVC (Sch. 40)**	LOCK TYPE/KEY CODE	**Master**

* Preliminary-Final location/elevation to be determined by As-Built Survey
** Reference point is notch cut in the top of PVC casing

NOTE: NOT TO SCALE, ALL DEPTHS RECORDED ARE RELATIVE TO EXISTING GROUND SURFACE AT TIME OF INSTALLATION



wood.

Notes:
Sand – 7 bags of #1 sand (2 for prepack)
Bentonite – 2 buckets 3/8" coated pellets for bedrock plug; 5 bags of 3/8" chips added to depth above groundwater depth
Grout – 2 bags of bentonite mix with ~40 gals water

Review: RNQ Date: 12/6/2021

Well Installation Record

PZ-57

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: **Deanna M. French, Susan B. Larson, Elizabeth R. Hahn, Jana M. Roy, Scott McGilvray, Mindee L. Rankin, Ronald J. Lange, John R. Claeys, Roger Kaltenbach, Guy Armfield, Scott Fisher, Andrew P. Larsen, Nicholas Fredrickson, William M. Smith, Derek Sabo, Charla M. Boadle**, 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 twenty-seventh day of April, 2020.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

By _____
Paul J. Brehm, Senior Vice President

STATE OF MINNESOTA
HENNEPIN COUNTY

On this twenty-seventh day of April, 2020, before me personally came Paul J. Brehm, Senior Vice President of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, that he 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 DWAN NASH-TROUT
NOTARY PUBLIC - MINNESOTA
My Commission Expires
January 31, 2025

_____
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 12 day of April, 2021.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

This Power of Attorney expires
January 31, 2025

_____
Kara Barrow, Secretary

Please direct bond verifications to surety@intactinsurance.com

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company , Surety upon

a certain Bond No. 800033976

Issued on 9/27/2017
Expires on 6/30/2021
Renewed on 4/12/2021
Expires on 6/30/2023

dated effective 09/27/2017
(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 06/30/2021
(MONTH-DAY-YEAR)

and ending on 06/30/2023
(MONTH-DAY-YEAR)

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

Description of bond Performance Bond for Water Well Contractors

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 12th , 2021
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By Andrew P. Larsen
Attorney-in-Fact Andrew P. Larsen

Parker, Smith & Feek, Inc.
Agent

2233 112th Ave NE Bellevue, WA 98004
Address of Agent

425-709-3600
Telephone Number of Agent

S-0157/GE 8/08

XDP

CONTINUATION
CERTIFICATE

SAFECO Insurance Company of America , Surety upon

a certain Bond No. **4993104**

dated effective June 30, 1987
(MONTH-DAY-YEAR)

on behalf of Southern Company Services, Inc.
(PRINCIPAL)

and in favor of Georgia Department of Natural Resources, Environmental Protection Division
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2021
(MONTH-DAY-YEAR)

and ending on June 30, 2022
(MONTH-DAY-YEAR)

Amount of bond Fifteen Thousand Dollars and 00/100 ($15,000.00)

Description of bond Water Well Contractors & Drillers

Premium: $100.00

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 05/06/2021
(MONTH-DAY-YEAR)

SAFECO Insurance Company of America

175 Berkeley Street, Boston, MA 02116

By _____
Attorney-in-Fact Jeffrey M. Wilson, Attorney-in-Fact

McGriff Insurance Services, Inc.
Agent

2211 7th Avenue South, Birmingham, AL 35233
Address of Agent

(205) 252-9871
Telephone Number of Agent

S-0157/GE 8/08

XDP

APPENDIX C

WELL DEVELOPMENT FORMS

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

Well ID: PZ-57

~~Field Sampling~~ Personnel: Daniel Howard
Well Development

Depth to Screen below MP: 63.39 of screen (Top) 73.39 of screen (Bottom)

Pump Intake at (ft. below MP): Varied
Purging Device (Pump Type): Geo Sub pump
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

Well Depth, (Ft.) 73.39
Depth To Water (Ft.) 31.22
Water Column (Ft.) 42.17 X 0.163
Well Volume (gal) 6.9 X 5 = 34.5

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
12/2/21	1430	34.6	1500	—	—	>1000	—	—	—	2			surged well
	1445	33.2	1500	6.87	0.65	221	2.6	22.1	52.3	5			
	1504	34.50	1500	6.88	0.65	10.0	2.2	22.6	21.3	10			surged well
	1521	37.52	2100	6.95	0.63	359	0.60	21.8	14.0	15			
	1531	37.79	2100	6.92	0.63	22.0	0.42	21.8	7.4	20			surged well
	1547	36.98	1800	6.99	0.62	456	0.32	21.9	30.4	25			
	1559	36.15	1500	6.92	0.61	11.5	0.22	21.8	11.2	30			surged well
	1620	37.43	2100	7.01	0.61	610	0.45	21.8	24.6	35			
	1633	35.91	900	6.96	0.61	26.4	0.29	21.7	11.9	40			
	1641	34.15	900	6.97	0.61	6.00	0.23	21.8	8.2	44			
	1646	34.20	900	6.96	0.61	3.50	0.28	21.8	6.9	45			
	1651	34.18	900	6.96	0.61	2.82	0.29	21.8	6.9	46			
	1655	34.16	900	6.96	0.60	3.49	0.29	21.8	7.9	47			
↓	1659	34.16	900	6.96	0.60	2.86	0.28	21.8	8.3	48			Well is stable

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<10 NTUs for turbidity
NA for temperature

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

V

APPENDIX D

WELL ABANDONMENT DOCUMENT

MONITORING WELL ABANDONMENT RECORD

WELL NO.: MW-115
PROJECT NAME: Plant Mitchell
PROJECT NO.: 6122160170
DATE: 11/03/2021

Name of Property Owner: Georgia Power Company

Address of Property: 5200 Radium Springs Road, Albany GA 31705

Original Purpose of Well Installation: Groundwater Monitoring

Total Depth of Well
(Measured from Top of Riser) 90.27 ft btoc total well depth 88.0 ft bgs total boring depth

Well Diameter 2.00 inches

Screen Slot Size 0.010 - inch

Length of Screen 10.0 ft (77.0 to 87.0 ft bgs)

Depth to Water/Date
(Measure from Top of Riser) 29.04 ft btoc (11/02/2021)

Description of Well Abandonment Method: Overdrill and grout

Type and Volume of Materials Used to Plug Well/Borehole 40.0 Gallons of AquaGuard

Riser and Screen Removed or Left in Place: 20.0 feet removed and remainder destroyed by overdrilling

Drilling Contractor Cascade Driller's Name Cory Franklin

Additional Notes -

Well overdrilled with 6 inch override casing and and 4 inch core barrel to depth of original boring

Materials used:

1) Halliburton Holeplug 3/8 inch coarse grade Wyoming sodium bentonite chips emplaced from bottom of boring to above the water table: used 16 x 50 pound bags and filled hole to 23 feet bellow grade
2) AquaGuard bentonite grout 50 pounds bag: used 2 bags and 30 gallons of water

Wood Environment & Infrastructure Solutions Field Representative: Andreas Shoredits

Date Well Abandonment Completed: 11/04/2021

APPENDIX B
WELL INSPECTIONS

WELL REPAIRS

MEMORANDUM

Date: December 10, 2021

To: Kristen Jurinko – Georgia Power

CC: Ben Hodges

From: Wood Environment & Infrastructure Solutions, Inc.

Subject: Plant Mitchell Ash Ponds A, 1, and 2 - Well Maintenance and Repair Documentation
Georgia Power Company

Wood Environment & Infrastructure Solutions, Inc. (Wood) has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at PLANT MITCHELL during the semiannual reporting period. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GAEPD) guidance on routine visual inspections of groundwater monitoring wells.

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Mitchell Ash Ponds A, 1, & 2	August 2021	MW-113	Removed ant nest on well pad and placed ant poison on nest, removed nest from inside protective cover
Mitchell Ash Ponds A, 1, & 2	August 2021	MW-115	Added new well tag. Well was abandoned on 11/3/2021.
Mitchell Ash Ponds A, 1, & 2	August 2021	MW-119	Cleaned crack in well pad with wire brush and patched with hydraulic concrete.
Mitchell Ash Ponds A, 1, & 2	August 2021	PZ-3D and PZ-4D	Cut down overgrown grass around the wells and cleared pads off.
Mitchell Ash Ponds A, 1, & 2	August 2021	PZ-6S	Fixed protective cover to allow hinge to close properly.
Mitchell Ash Ponds A, 1, & 2	August 2021	PZ-12S	Telemetry instrumentation was installed in the well, and no further maintenance was conducted on well.

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Mitchell Ash Ponds A, 1, & 2	August 2021	PZ-11S	Construction team had performed some grading around the well, so the well was above grade approx. 7 feet, such that it was on an "island". CFS cut the grass around the well and the path to the well. No erosion was visible around the well pad, but there was some erosion from where the grading had been conducted. Because the well was so much higher than the surrounding ground surface there was nothing further could be done to the well. The steep sides should probably be sloped, and grass planted to stop the erosion. The pad/cover was inspected and did not appear to require any repairs. The protective cover appeared to be in contact with the concrete of the pad and did not move. Placed well tag on the protective cover.
Mitchell Ash Ponds A, 1, & 2	August 2021	PZ-13S	Repaired the erosion under the pad by drilling 6 ½-inch holes on top of pad and injecting hydraulic cement underneath pad with a pump. Returned the next day and the pad no longer rocked when standing on it. Repaired the washout that had occurred.
Mitchell Ash Ponds A, 1, & 2	August 2021	PZ-17	Placed telemetry cap on riser.
Mitchell Ash Ponds A, 1, & 2	August 2021	PZ-24A	Tagged the total well depth at 62 feet from the top of the riser. Flushed out well with clean potable water using tremie pipe. Tagged well bottom after flushing and measured total depth of 63.5 feet from top of the riser.
Mitchell Ash Ponds A, 1, & 2	August 2021	PZ-23A	Cut grass around well and shoveled sediment from well pad. Sprayed the pad off with clean potable water.
Mitchell Ash Ponds A, 1, & 2	August 2021	PZ-01R PZ-02R PZ-22 PZ-24A MW-101 MW-102 MW-103 MW-107 MW-108 MW-110 MW-111 MW-112 MW-113 MW-114 MW-116 MW-117	Small aluminum well tags were added to the listed wells

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Mitchell Ash Ponds A, 1, & 2	August 2021	MW-118 MW-119 MW-120 MW-121 MW-122 MW-123 MW-125 MW-126 MW-127 <u>Non-CCR Wells</u> MW-201 MW-202 MW-203 MW-204 MW-206 MW-207 MW-208	Small aluminum well tags were added to the listed wells
Mitchell Ash Ponds A, 1, & 2	August 2021	PZ-24A MW-114 MW-103 MW-107	Letter/Number Stickers for Well IDs were replaced on the listed wells

WELL INSPECTIONS

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-101
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

David Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-102
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-103
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	n/a		✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-107
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓	NA	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	Protective Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-10B
Date: 9-13-21

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓	NA	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-110
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-111
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-112
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓	9-14	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	Protective Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-113
Date: 9-13-21

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓	4PH	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-114
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-115
Date: 9-13-21

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-116
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-117
Date: ~~9/29~~ 9/13/21 DH

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-118
Date: 9/13/21

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?	DT		✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-119
Date: 9/13/21

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-130
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-121
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-122
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-123
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-1A
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?		✓	
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?			✓
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 clear of debris and water, or filled with pea gravel/sand?			✓
e	Is the well locked and is the lock in good condition?			✓
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?			✓
b	Is the well pad sloped away from the protective casing?			✓
c	Is the well pad in complete contact with the protective casing?			✓
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			✓
e	Is the pad surface clean (not covered with sediment or debris)?			✓
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Well is located in API. Path to well needs to be maintained.

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-1D
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-15
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-01R
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?		✓	
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?			✓
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 clear of debris and water, or filled with pea gravel/sand?			✓
e	Is the well locked and is the lock in good condition?			✓
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?			✓
b	Is the well pad sloped away from the protective casing?			✓
c	Is the well pad in complete contact with the protective casing?			✓
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			✓
e	Is the pad surface clean (not covered with sediment or debris)?			✓
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Well is located in API. Path to well needs to be maintained

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-2A
Date: 9/13/21

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing**			
a	Is the protective casing free from apparent damage and able to be secured?			✓
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 clear of debris and water, or filled with pea gravel/sand?			✓
e	Is the well locked and is the lock in good condition?			✓
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?			✓
b	Is the well pad sloped away from the protective casing?			✓
c	Is the well pad in complete contact with the protective casing?			✓
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			✓
e	Is the pad surface clean (not covered with sediment or debris)?			✓
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-2D
Date: 9/13/21

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equiprnent installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-02R
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?			✓
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 clear of debris and water, or filled with pea gravel/sand?			✓
e	Is the well locked and is the lock in good condition?			✓
3	Surface pad			
a	is the well pad in good condition (not cracked or broken)?			✓
b	Is the well pad sloped away from the protective casing?			✓
c	Is the well pad in complete contact with the protective casing?			✓
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			✓
e	Is the pad surface clean (not covered with sediment or debris)?			✓
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-25
Date: 9/13/21

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-3D
Date: 9/13/21

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-35
Date: 9/13/21

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-4D
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-45
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equiprnent installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: P2-6s
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓	OK	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	Protective Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-7D
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓	N/A	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	Protective Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-7S
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓	N/A	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	Protective Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-8D
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

WASPS IN WELL PRO CASING

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-8s
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

WASPS IN WELL PRO CASING

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-9D
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Gaillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-9s
Date: 9-13-21

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-10S
Date: 9-13-21

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?		✓	
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
WELL IS DIFFICULT TO ACCESS - GRADING & VEGETATION - WASPS IN WELL PRO CASING

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: P2-11s
Date: 9-13-21

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?		✓	
b	Is the well properly identified with the correct well ID?		✓	
c	Is the well in a high traffic area and 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 Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		✓	
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Well Visible But Difficult To Access, Uneven & Slippery Footing - Heavy Vegetation

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-12
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-13
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equiprnent installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-14
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓	PH	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	Protective Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-15
Date: 9-13-21

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓	~~✓~~ DH	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

NEED TO GRADE THE AREA FOR SAFE ACCESS TO THE WELL (STEEP SLOPE)

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-16
Date: 9-13-21

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓	✓ OH	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Rusty Lock – Wasps In Well Pro Casing

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-17
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-18
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-19
Date: 9-13-24

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-20
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-21
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	Pit	✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	Protective Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-22
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-23A
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-24
Date: 9-13-21

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓	N/A	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-25
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-27
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓	~~✓~~ DH	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	Protective Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-28
Date: 9-13-21

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓	PH	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-29
Date: 9-13-21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓	DH	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	Protective Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-31
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-32
Date: 9/13/21

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-33
Date: 9-13-21

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-42
Date: 9/13/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?			✓
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-46
Date: 9/17/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-47
Date: 9/17/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equiprnent installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-50
Date: 9/14/21

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and 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 Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
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 clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc 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	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

APPENDIX C

LABORATORY ANALYTICAL AND FIELD SAMPLING REPORTS

Well ID	Sample Date	Purge Volume (liter)	Time Elapsed (secs)	DTW (feet, TOC)	Drawdown (feet)	Temperature (C)	pH (su)	Specific Conductance (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
PZ-1D	9/14/2021	8.0	2400	54.35	0.67	24.31	7.45	240.75	1.98	3.17	68.1
PZ-2D	9/14/2021	6.0	1800	35.96	0.13	20.65	8.96	108.46	2.37	2.06	43.8
PZ-7D	9/16/2021	6.0	1800	23.31	0.10	21.64	6.96	529.39	1.52	0.56	49.2
PZ-14	9/15/2021	9.0	2700	44.01	0	25.42	6.94	457.30	1.93	5.56	93.9
PZ-15	9/15/2021	7.6	2265	32.58	0	24.77	7.09	526.17	4.62	0.44	-39.4
PZ-16	9/15/2021	5.6	1680	35.34	0.10	22.20	7.12	461.51	0.57	1.64	96.3
PZ-17	9/16/2021	6.7	2010	34.05	0.08	22.67	7.03	495.61	2.72	0.26	-34.7
PZ-18	9/16/2021	7.0	2100	31.19	0.16	22.95	6.85	576.47	4.86	0.24	43.4
PZ-19	9/16/2021	6.0	1800	33.23	0.07	22.83	6.77	722.12	0.62	0.41	48.4
PZ-23A	9/15/2021	10.0	3000	50.89	0.38	26.17	6.72	632.07	1.79	2.80	87.6
PZ-25	9/15/2021	5.0	1500	32.25	0.11	23.06	7.05	439.05	0.78	0.29	-58.5
PZ-31	9/15/2021	8.0	2400	39.41	0.32	22.63	6.99	414.48	2.69	5.15	71.7
PZ-32	9/14/2021	5.0	1500	38.01	0.06	20.74	7.31	298.93	0.35	0.54	52.0
PZ-33	9/16/2021	9.0	2700	50.18	0.26	23.76	7.10	426.04	1.43	0.32	42.5

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

October 07, 2021

Michelle Barker
WOOD E&I
1075 Big Shanty Rd
Suite 100
Kennesaw, GA 30144

RE: Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Dear Michelle Barker:

Enclosed are the analytical results for sample(s) received by the laboratory between September 16, 2021 and September 17, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Kristen Jurinko
Ms. Lauren Petty, Southern Company
Rhonda Quinn, WOOD E&I
Greg Wrenn, WOOD E&I

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

SAMPLE SUMMARY

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92561680001	**FB-1**	Water	09/14/21 14:05	09/16/21 10:20
92561680002	**PZ-2D**	Water	09/14/21 15:12	09/16/21 10:20
92561680003	**PZ-32**	Water	09/14/21 16:42	09/16/21 10:20
92561680004	**PZ-1D**	Water	09/14/21 16:20	09/16/21 10:20
92561680005	**EB-1**	Water	09/15/21 09:10	09/16/21 10:20
92561680006	**PZ-31**	Water	09/15/21 10:20	09/16/21 10:20
92561680007	**PZ-14**	Water	09/15/21 12:55	09/16/21 10:20
92561680008	**PZ-23A**	Water	09/15/21 15:25	09/16/21 10:20
92561680009	**PZ-16**	Water	09/15/21 10:58	09/16/21 10:20
92561680010	**PZ-15**	Water	09/15/21 13:50	09/16/21 10:20
92561680011	**PZ-25**	Water	09/15/21 15:40	09/16/21 10:20
92561680012	**PZ-7D**	Water	09/16/21 11:05	09/17/21 09:50
92561680013	**PZ-19**	Water	09/16/21 13:58	09/17/21 09:50
92561680014	**DUP-1**	Water	09/16/21 00:00	09/17/21 09:50
92561680015	**PZ-17**	Water	09/16/21 10:45	09/17/21 09:50
92561680016	**PZ-18**	Water	09/16/21 13:05	09/17/21 09:50
92561680017	**PZ-33**	Water	09/16/21 16:30	09/17/21 09:50
92561680018	**DUP-2**	Water	09/16/21 00:00	09/17/21 09:50

Pace Analytical Services, LLC
110 Technology Parkway
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SAMPLE ANALYTE COUNT

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92561680001	**FB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680002	**PZ-2D**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680003	**PZ-32**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680004	**PZ-1D**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680005	**EB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680006	**PZ-31**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680007	**PZ-14**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680008	**PZ-23A**	EPA 6010D	KH	1
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680009	**PZ-16**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680010	**PZ-15**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680011	**PZ-25**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680012	**PZ-7D**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680013	**PZ-19**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680014	**DUP-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680015	**PZ-17**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1

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(770)734-4200

SAMPLE ANALYTE COUNT

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680016	**PZ-18**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680017	**PZ-33**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92561680018	**DUP-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

Pace Analytical Services, LLC
110 Technology Parkway
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SUMMARY OF DETECTION

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92561680002	**PZ-2D**					
	Performed by	CUSTOMER			09/16/21 12:42	
	pH	8.96	Std. Units		09/16/21 12:42	
EPA 6010D	Calcium	13.4	mg/L	1.0	09/29/21 17:35	
EPA 6020B	Antimony	0.0011J	mg/L	0.0030	09/29/21 14:22	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	09/29/21 14:22	
EPA 6020B	Barium	0.0041J	mg/L	0.0050	09/29/21 14:22	
EPA 6020B	Boron	0.011J	mg/L	0.040	09/29/21 14:22	
EPA 6020B	Chromium	0.0084	mg/L	0.0050	09/29/21 14:22	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	09/29/21 14:22	
EPA 6020B	Molybdenum	0.00077J	mg/L	0.010	09/29/21 14:22	
SM 2540C-2011	Total Dissolved Solids	71.0	mg/L	10.0	09/21/21 12:34	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	09/18/21 06:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.089J	mg/L	0.10	09/18/21 06:32	
EPA 300.0 Rev 2.1 1993	Sulfate	3.8	mg/L	1.0	09/18/21 06:32	
92561680003	**PZ-32**					
	Performed by	CUSTOMER			09/16/21 12:46	
	pH	7.31	Std. Units		09/16/21 12:46	
EPA 6010D	Calcium	67.8	mg/L	1.0	09/29/21 17:40	
EPA 6020B	Antimony	0.0012J	mg/L	0.0030	09/29/21 14:45	
EPA 6020B	Barium	0.014	mg/L	0.0050	09/29/21 14:45	
EPA 6020B	Boron	0.012J	mg/L	0.040	09/29/21 14:45	
SM 2540C-2011	Total Dissolved Solids	179	mg/L	10.0	09/21/21 12:34	
EPA 300.0 Rev 2.1 1993	Chloride	2.2	mg/L	1.0	09/18/21 06:48	
EPA 300.0 Rev 2.1 1993	Sulfate	1.8	mg/L	1.0	09/18/21 06:48	
92561680004	**PZ-1D**					
	Performed by	CUSTOMER			09/16/21 12:46	
	pH	7.45	Std. Units		09/16/21 12:46	
EPA 6010D	Calcium	51.0	mg/L	1.0	09/29/21 18:03	
EPA 6020B	Barium	0.013	mg/L	0.0050	09/29/21 14:51	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	09/29/21 14:51	
EPA 6020B	Molybdenum	0.00086J	mg/L	0.010	09/29/21 14:51	
SM 2540C-2011	Total Dissolved Solids	150	mg/L	10.0	09/21/21 12:34	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	09/18/21 07:04	
EPA 300.0 Rev 2.1 1993	Sulfate	2.6	mg/L	1.0	09/18/21 07:04	
92561680006	**PZ-31**					
	Performed by	CUSTOMER			09/16/21 12:47	
	pH	6.99	Std. Units		09/16/21 12:47	
EPA 6010D	Calcium	101	mg/L	1.0	09/29/21 18:12	
EPA 6020B	Barium	0.0066	mg/L	0.0050	09/29/21 15:18	
EPA 6020B	Chromium	0.0014J	mg/L	0.0050	09/29/21 15:18	
SM 2540C-2011	Total Dissolved Solids	256	mg/L	10.0	09/21/21 19:10	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	09/22/21 20:08	
EPA 300.0 Rev 2.1 1993	Sulfate	0.64J	mg/L	1.0	09/22/21 20:08	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92561680007	**PZ-14**					
	Performed by	CUSTOMER			09/16/21 12:47	
	pH	6.94	Std. Units		09/16/21 12:47	
EPA 6010D	Calcium	106	mg/L	1.0	09/29/21 18:17	
EPA 6020B	Barium	0.014	mg/L	0.0050	09/29/21 15:23	
EPA 6020B	Boron	0.022J	mg/L	0.040	09/29/21 15:23	
EPA 6020B	Chromium	0.0014J	mg/L	0.0050	09/29/21 15:23	
SM 2540C-2011	Total Dissolved Solids	292	mg/L	10.0	09/21/21 19:10	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	09/22/21 20:24	
EPA 300.0 Rev 2.1 1993	Sulfate	11.4	mg/L	1.0	09/22/21 20:24	
92561680008	**PZ-23A**					
	Performed by	CUSTOMER			09/16/21 12:47	
	pH	6.72	Std. Units		09/16/21 12:47	
EPA 6010D	Calcium	147	mg/L	1.0	09/29/21 18:22	
EPA 6020B	Barium	0.037	mg/L	0.0050	09/29/21 15:29	
EPA 6020B	Boron	0.15	mg/L	0.040	09/29/21 15:29	
EPA 6020B	Chromium	0.0019J	mg/L	0.0050	09/29/21 15:29	
EPA 6020B	Lithium	0.00085J	mg/L	0.030	09/29/21 15:29	
EPA 6020B	Selenium	0.0024J	mg/L	0.0050	09/29/21 15:29	
SM 2540C-2011	Total Dissolved Solids	422	mg/L	10.0	09/21/21 19:10	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	09/22/21 21:12	
EPA 300.0 Rev 2.1 1993	Sulfate	46.8	mg/L	1.0	09/22/21 21:12	
92561680009	**PZ-16**					
	Performed by	CUSTOMER			09/16/21 12:47	
	pH	7.12	Std. Units		09/16/21 12:47	
EPA 6010D	Calcium	91.0	mg/L	1.0	09/29/21 18:27	
EPA 6020B	Barium	0.032	mg/L	0.0050	09/29/21 15:35	
EPA 6020B	Boron	0.16	mg/L	0.040	09/29/21 15:35	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	09/29/21 15:35	
SM 2540C-2011	Total Dissolved Solids	270	mg/L	10.0	09/21/21 19:10	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	09/18/21 07:20	
EPA 300.0 Rev 2.1 1993	Sulfate	37.8	mg/L	1.0	09/18/21 07:20	
92561680010	**PZ-15**					
	Performed by	CUSTOMER			09/16/21 12:48	
	pH	7.09	Std. Units		09/16/21 12:48	
EPA 6010D	Calcium	94.0	mg/L	1.0	09/30/21 18:52	
EPA 6020B	Barium	0.045	mg/L	0.0050	09/29/21 15:40	
EPA 6020B	Boron	0.16	mg/L	0.040	09/29/21 15:40	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	09/29/21 15:40	
EPA 6020B	Thallium	0.00020J	mg/L	0.0010	09/29/21 15:40	
SM 2540C-2011	Total Dissolved Solids	326	mg/L	10.0	09/21/21 19:10	
EPA 300.0 Rev 2.1 1993	Chloride	5.8	mg/L	1.0	09/18/21 07:36	
EPA 300.0 Rev 2.1 1993	Sulfate	73.4	mg/L	1.0	09/18/21 07:36	

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SUMMARY OF DETECTION

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92561680011	**PZ-25**					
	Performed by	CUSTOMER			09/16/21 12:48	
	pH	7.05	Std. Units		09/16/21 12:48	
EPA 6010D	Calcium	84.4	mg/L	1.0	09/30/21 18:57	
EPA 6020B	Barium	0.11	mg/L	0.0050	09/29/21 15:46	
EPA 6020B	Boron	0.17	mg/L	0.040	09/29/21 15:46	
EPA 6020B	Cobalt	0.0020J	mg/L	0.0050	09/29/21 15:46	
EPA 6020B	Lithium	0.0061J	mg/L	0.030	09/29/21 15:46	
EPA 6020B	Thallium	0.00066J	mg/L	0.0010	09/29/21 15:46	
SM 2540C-2011	Total Dissolved Solids	272	mg/L	10.0	09/21/21 19:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	09/18/21 21:19	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	09/18/21 21:19	
EPA 300.0 Rev 2.1 1993	Sulfate	37.8	mg/L	1.0	09/18/21 21:19	
92561680012	**PZ-7D**					
	Performed by	CUSTOMER			09/17/21 10:52	
	pH	6.96	Std. Units		09/17/21 10:52	
EPA 6010D	Calcium	109	mg/L	1.0	09/30/21 19:02	
EPA 6020B	Barium	0.0062	mg/L	0.0050	09/29/21 15:52	
EPA 6020B	Boron	0.18	mg/L	0.040	09/29/21 15:52	
EPA 6020B	Chromium	0.0025J	mg/L	0.0050	09/29/21 15:52	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	09/29/21 15:52	
SM 2540C-2011	Total Dissolved Solids	307	mg/L	10.0	09/23/21 13:17	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	09/20/21 12:39	
EPA 300.0 Rev 2.1 1993	Sulfate	41.8	mg/L	1.0	09/20/21 12:39	
92561680013	**PZ-19**					
	Performed by	CUSTOMER			09/17/21 10:53	
	pH	6.77	Std. Units		09/17/21 10:53	
EPA 6010D	Calcium	137	mg/L	1.0	09/30/21 19:07	
EPA 6020B	Barium	0.053	mg/L	0.0050	09/29/21 15:58	
EPA 6020B	Boron	0.46	mg/L	0.040	09/29/21 15:58	
EPA 6020B	Lithium	0.013J	mg/L	0.030	09/29/21 15:58	
EPA 6020B	Molybdenum	0.0021J	mg/L	0.010	09/29/21 15:58	
EPA 6020B	Selenium	0.0033J	mg/L	0.0050	09/29/21 15:58	
EPA 6020B	Thallium	0.00066J	mg/L	0.0010	09/29/21 15:58	
SM 2540C-2011	Total Dissolved Solids	450	mg/L	20.0	09/23/21 13:17	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	09/20/21 12:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	09/20/21 12:55	
EPA 300.0 Rev 2.1 1993	Sulfate	72.7	mg/L	1.0	09/20/21 12:55	
92561680014	**DUP-1**					
EPA 6010D	Calcium	135	mg/L	1.0	09/30/21 19:11	
EPA 6020B	Barium	0.052	mg/L	0.0050	09/29/21 16:03	
EPA 6020B	Boron	0.44	mg/L	0.040	09/29/21 16:03	
EPA 6020B	Lithium	0.013J	mg/L	0.030	09/29/21 16:03	
EPA 6020B	Molybdenum	0.0021J	mg/L	0.010	09/29/21 16:03	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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SUMMARY OF DETECTION

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92561680014	**DUP-1**					
EPA 6020B	Selenium	0.0037J	mg/L	0.0050	09/29/21 16:03	
EPA 6020B	Thallium	0.00066J	mg/L	0.0010	09/29/21 16:03	
SM 2540C-2011	Total Dissolved Solids	398	mg/L	20.0	09/23/21 13:17	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	09/20/21 13:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	09/20/21 13:10	
EPA 300.0 Rev 2.1 1993	Sulfate	72.5	mg/L	1.0	09/20/21 13:10	
92561680015	**PZ-17**					
	Performed by	CUSTOMER			09/17/21 10:53	
	pH	7.03	Std. Units		09/17/21 10:53	
EPA 6010D	Calcium	102	mg/L	1.0	09/30/21 19:16	
EPA 6020B	Barium	0.064	mg/L	0.0050	09/29/21 16:09	
EPA 6020B	Boron	0.22	mg/L	0.040	09/29/21 16:09	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	09/29/21 16:09	
EPA 6020B	Thallium	0.00034J	mg/L	0.0010	09/29/21 16:09	
SM 2540C-2011	Total Dissolved Solids	330	mg/L	10.0	09/23/21 13:18	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	09/20/21 13:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	09/20/21 13:26	
EPA 300.0 Rev 2.1 1993	Sulfate	70.9	mg/L	1.0	09/20/21 13:26	
92561680016	**PZ-18**					
	Performed by	CUSTOMER			09/17/21 10:53	
	pH	6.85	Std. Units		09/17/21 10:53	
EPA 6010D	Calcium	135	mg/L	1.0	09/30/21 19:31	
EPA 6020B	Barium	0.022	mg/L	0.0050	09/29/21 16:26	
EPA 6020B	Boron	0.31	mg/L	0.040	09/29/21 16:26	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	09/29/21 16:26	
SM 2540C-2011	Total Dissolved Solids	419	mg/L	10.0	09/23/21 13:18	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	09/20/21 13:42	
EPA 300.0 Rev 2.1 1993	Sulfate	86.9	mg/L	1.0	09/20/21 13:42	
92561680017	**PZ-33**					
	Performed by	CUSTOMER			09/17/21 10:53	
	pH	7.10	Std. Units		09/17/21 10:53	
EPA 6010D	Calcium	92.0	mg/L	1.0	09/30/21 19:36	
EPA 6020B	Barium	0.039	mg/L	0.0050	09/29/21 16:32	
EPA 6020B	Boron	0.31	mg/L	0.040	09/29/21 16:32	
SM 2540C-2011	Total Dissolved Solids	296	mg/L	10.0	09/23/21 13:18	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	09/20/21 13:58	
EPA 300.0 Rev 2.1 1993	Sulfate	40.4	mg/L	1.0	09/20/21 13:58	
92561680018	**DUP-2**					
EPA 6010D	Calcium	94.6	mg/L	1.0	09/30/21 19:40	
EPA 6020B	Barium	0.039	mg/L	0.0050	09/29/21 16:38	
EPA 6020B	Boron	0.31	mg/L	0.040	09/29/21 16:38	
SM 2540C-2011	Total Dissolved Solids	293	mg/L	10.0	09/23/21 13:18	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	09/20/21 14:46	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92561680018	**DUP-2**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	09/20/21 14:46	
EPA 300.0 Rev 2.1 1993	Sulfate	40.6	mg/L	1.0	09/20/21 14:46	

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ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: FB-1 **Lab ID: 92561680001** Collected: 09/14/21 14:05 Received: 09/16/21 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/29/21 10:10	09/29/21 17:30	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 14:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 14:17	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 14:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 14:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 14:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 14:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 14:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 14:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 14:17	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 14:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 14:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 14:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 14:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:30	09/29/21 10:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/21/21 12:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/18/21 06:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/18/21 06:16	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/18/21 06:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: PZ-2D **Lab ID: 92561680002** Collected: 09/14/21 15:12 Received: 09/16/21 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/16/21 12:42		
pH	**8.96**	Std. Units			1		09/16/21 12:42		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**13.4**	mg/L	1.0	0.12	1	09/29/21 10:10	09/29/21 17:35	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0011J**	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 14:22	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 14:22	7440-38-2	
Barium	**0.0041J**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 14:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 14:22	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 14:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 14:22	7440-43-9	
Chromium	**0.0084**	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 14:22	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 14:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 14:22	7439-92-1	
Lithium	**0.0013J**	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 14:22	7439-93-2	
Molybdenum	**0.00077J**	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 14:22	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 14:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 14:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:30	09/29/21 10:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**71.0**	mg/L	10.0	10.0	1		09/21/21 12:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.5**	mg/L	1.0	0.60	1		09/18/21 06:32	16887-00-6	
Fluoride	**0.089J**	mg/L	0.10	0.050	1		09/18/21 06:32	16984-48-8	
Sulfate	**3.8**	mg/L	1.0	0.50	1		09/18/21 06:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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(770)734-4200

ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: PZ-32 **Lab ID: 92561680003** Collected: 09/14/21 16:42 Received: 09/16/21 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/16/21 12:46		
pH	**7.31**	Std. Units			1		09/16/21 12:46		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**67.8**	mg/L	1.0	0.12	1	09/29/21 10:10	09/29/21 17:40	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0012J**	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 14:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 14:45	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 14:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 14:45	7440-41-7	
Boron	**0.012J**	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 14:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 14:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 14:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 14:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 14:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 14:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 14:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 14:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 14:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:30	09/29/21 10:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**179**	mg/L	10.0	10.0	1		09/21/21 12:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.2**	mg/L	1.0	0.60	1		09/18/21 06:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/18/21 06:48	16984-48-8	
Sulfate	**1.8**	mg/L	1.0	0.50	1		09/18/21 06:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: PZ-1D **Lab ID: 92561680004** Collected: 09/14/21 16:20 Received: 09/16/21 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/16/21 12:46		
pH	**7.45**	Std. Units			1		09/16/21 12:46		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**51.0**	mg/L	1.0	0.12	1	09/29/21 10:10	09/29/21 18:03	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 14:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 14:51	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 14:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 14:51	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 14:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 14:51	7440-43-9	
Chromium	**0.0020J**	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 14:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 14:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 14:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 14:51	7439-93-2	
Molybdenum	**0.00086J**	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 14:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 14:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 14:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:30	09/29/21 10:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**150**	mg/L	10.0	10.0	1		09/21/21 12:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.9**	mg/L	1.0	0.60	1		09/18/21 07:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/18/21 07:04	16984-48-8	
Sulfate	**2.6**	mg/L	1.0	0.50	1		09/18/21 07:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: EB-1 **Lab ID: 92561680005** Collected: 09/15/21 09:10 Received: 09/16/21 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/29/21 10:10	09/29/21 18:08	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 14:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 14:57	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 14:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 14:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 14:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 14:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 14:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 14:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 14:57	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 14:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 14:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 14:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 14:57	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:30	09/29/21 10:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/21/21 19:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/22/21 19:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/22/21 19:52	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/22/21 19:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: PZ-31 **Lab ID: 92561680006** Collected: 09/15/21 10:20 Received: 09/16/21 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/16/21 12:47		
pH	**6.99**	Std. Units			1		09/16/21 12:47		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**101**	mg/L	1.0	0.12	1	09/29/21 10:10	09/29/21 18:12	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 15:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:18	7440-38-2	
Barium	**0.0066**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 15:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 15:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 15:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 15:18	7440-43-9	
Chromium	**0.0014J**	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 15:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 15:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 15:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 15:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 15:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 15:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:30	09/29/21 10:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**256**	mg/L	10.0	10.0	1		09/21/21 19:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.8**	mg/L	1.0	0.60	1		09/22/21 20:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/22/21 20:08	16984-48-8	
Sulfate	**0.64J**	mg/L	1.0	0.50	1		09/22/21 20:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: PZ-14 **Lab ID: 92561680007** Collected: 09/15/21 12:55 Received: 09/16/21 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/16/21 12:47		
pH	**6.94**	Std. Units			1		09/16/21 12:47		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**106**	mg/L	1.0	0.12	1	09/29/21 10:10	09/29/21 18:17	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 15:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:23	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 15:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 15:23	7440-41-7	
Boron	**0.022J**	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 15:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 15:23	7440-43-9	
Chromium	**0.0014J**	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 15:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 15:23	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 15:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 15:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 15:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 15:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:30	09/29/21 10:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**292**	mg/L	10.0	10.0	1		09/21/21 19:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.9**	mg/L	1.0	0.60	1		09/22/21 20:24	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/22/21 20:24	16984-48-8	
Sulfate	**11.4**	mg/L	1.0	0.50	1		09/22/21 20:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: PZ-23A **Lab ID: 92561680008** Collected: 09/15/21 15:25 Received: 09/16/21 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/16/21 12:47		
pH	**6.72**	Std. Units			1		09/16/21 12:47		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**147**	mg/L	1.0	0.12	1	09/29/21 10:10	09/29/21 18:22	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 15:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:29	7440-38-2	
Barium	**0.037**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 15:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 15:29	7440-41-7	
Boron	**0.15**	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 15:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 15:29	7440-43-9	
Chromium	**0.0019J**	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 15:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 15:29	7439-92-1	
Lithium	**0.00085J**	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 15:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 15:29	7439-98-7	
Selenium	**0.0024J**	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 15:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 15:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:30	09/29/21 10:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**422**	mg/L	10.0	10.0	1		09/21/21 19:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.8**	mg/L	1.0	0.60	1		09/22/21 21:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/22/21 21:12	16984-48-8	
Sulfate	**46.8**	mg/L	1.0	0.50	1		09/22/21 21:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: PZ-16 **Lab ID: 92561680009** Collected: 09/15/21 10:58 Received: 09/16/21 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/16/21 12:47		
pH	**7.12**	Std. Units			1		09/16/21 12:47		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**91.0**	mg/L	1.0	0.12	1	09/29/21 10:10	09/29/21 18:27	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 15:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:35	7440-38-2	
Barium	**0.032**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 15:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 15:35	7440-41-7	
Boron	**0.16**	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 15:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 15:35	7440-43-9	
Chromium	**0.0011J**	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 15:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 15:35	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 15:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 15:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 15:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 15:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:30	09/29/21 10:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**270**	mg/L	10.0	10.0	1		09/21/21 19:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.6**	mg/L	1.0	0.60	1		09/18/21 07:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/18/21 07:20	16984-48-8	
Sulfate	**37.8**	mg/L	1.0	0.50	1		09/18/21 07:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: PZ-15 **Lab ID: 92561680010** Collected: 09/15/21 13:50 Received: 09/16/21 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/16/21 12:48		
pH	**7.09**	Std. Units			1		09/16/21 12:48		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**94.0**	mg/L	1.0	0.12	1	09/30/21 10:15	09/30/21 18:52	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 15:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:40	7440-38-2	
Barium	**0.045**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 15:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 15:40	7440-41-7	
Boron	**0.16**	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 15:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 15:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 15:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 15:40	7439-92-1	
Lithium	**0.0013J**	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 15:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 15:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 15:40	7782-49-2	
Thallium	**0.00020J**	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 15:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:30	09/29/21 10:24	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**326**	mg/L	10.0	10.0	1		09/21/21 19:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.8**	mg/L	1.0	0.60	1		09/18/21 07:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/18/21 07:36	16984-48-8	
Sulfate	**73.4**	mg/L	1.0	0.50	1		09/18/21 07:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: PZ-25 **Lab ID: 92561680011** Collected: 09/15/21 15:40 Received: 09/16/21 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/16/21 12:48		
pH	**7.05**	Std. Units			1		09/16/21 12:48		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**84.4**	mg/L	1.0	0.12	1	09/30/21 10:15	09/30/21 18:57	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 15:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:46	7440-38-2	
Barium	**0.11**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 15:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 15:46	7440-41-7	
Boron	**0.17**	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 15:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 15:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:46	7440-47-3	
Cobalt	**0.0020J**	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 15:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 15:46	7439-92-1	
Lithium	**0.0061J**	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 15:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 15:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 15:46	7782-49-2	
Thallium	**0.00066J**	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 15:46	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:30	09/29/21 10:32	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**272**	mg/L	10.0	10.0	1		09/21/21 19:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.8**	mg/L	1.0	0.60	1		09/18/21 21:19	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		09/18/21 21:19	16984-48-8	
Sulfate	**37.8**	mg/L	1.0	0.50	1		09/18/21 21:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: PZ-7D **Lab ID: 92561680012** Collected: 09/16/21 11:05 Received: 09/17/21 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/17/21 10:52		
pH	**6.96**	Std. Units			1		09/17/21 10:52		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**109**	mg/L	1.0	0.12	1	09/30/21 10:15	09/30/21 19:02	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 15:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:52	7440-38-2	
Barium	**0.0062**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 15:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 15:52	7440-41-7	
Boron	**0.18**	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 15:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 15:52	7440-43-9	
Chromium	**0.0025J**	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 15:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 15:52	7439-92-1	
Lithium	**0.0025J**	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 15:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 15:52	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 15:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 15:52	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:30	09/29/21 10:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**307**	mg/L	10.0	10.0	1		09/23/21 13:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.3**	mg/L	1.0	0.60	1		09/20/21 12:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/20/21 12:39	16984-48-8	
Sulfate	**41.8**	mg/L	1.0	0.50	1		09/20/21 12:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: PZ-19 **Lab ID: 92561680013** Collected: 09/16/21 13:58 Received: 09/17/21 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/17/21 10:53		
pH	**6.77**	Std. Units			1		09/17/21 10:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**137**	mg/L	1.0	0.12	1	09/30/21 10:15	09/30/21 19:07	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 15:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:58	7440-38-2	
Barium	**0.053**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 15:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 15:58	7440-41-7	
Boron	**0.46**	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 15:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 15:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 15:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 15:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 15:58	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 15:58	7439-93-2	
Molybdenum	**0.0021J**	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 15:58	7439-98-7	
Selenium	**0.0033J**	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 15:58	7782-49-2	
Thallium	**0.00066J**	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 15:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:30	09/29/21 10:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**450**	mg/L	20.0	20.0	1		09/23/21 13:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.5**	mg/L	1.0	0.60	1		09/20/21 12:55	16887-00-6	
Fluoride	**0.067J**	mg/L	0.10	0.050	1		09/20/21 12:55	16984-48-8	
Sulfate	**72.7**	mg/L	1.0	0.50	1		09/20/21 12:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: DUP-1 **Lab ID: 92561680014** Collected: 09/16/21 00:00 Received: 09/17/21 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**135**	mg/L	1.0	0.12	1	09/30/21 10:15	09/30/21 19:11	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 16:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 16:03	7440-38-2	
Barium	**0.052**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 16:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 16:03	7440-41-7	
Boron	**0.44**	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 16:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 16:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 16:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 16:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 16:03	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 16:03	7439-93-2	
Molybdenum	**0.0021J**	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 16:03	7439-98-7	
Selenium	**0.0037J**	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 16:03	7782-49-2	
Thallium	**0.00066J**	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 16:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:30	09/29/21 10:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**398**	mg/L	20.0	20.0	1		09/23/21 13:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.5**	mg/L	1.0	0.60	1		09/20/21 13:10	16887-00-6	
Fluoride	**0.065J**	mg/L	0.10	0.050	1		09/20/21 13:10	16984-48-8	
Sulfate	**72.5**	mg/L	1.0	0.50	1		09/20/21 13:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: PZ-17 **Lab ID: 92561680015** Collected: 09/16/21 10:45 Received: 09/17/21 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/17/21 10:53		
pH	**7.03**	Std. Units			1		09/17/21 10:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**102**	mg/L	1.0	0.12	1	09/30/21 10:15	09/30/21 19:16	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 16:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 16:09	7440-38-2	
Barium	**0.064**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 16:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 16:09	7440-41-7	
Boron	**0.22**	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 16:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 16:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 16:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 16:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 16:09	7439-92-1	
Lithium	**0.0021J**	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 16:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 16:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 16:09	7782-49-2	
Thallium	**0.00034J**	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 16:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:30	09/29/21 10:43	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**330**	mg/L	10.0	10.0	1		09/23/21 13:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.2**	mg/L	1.0	0.60	1		09/20/21 13:26	16887-00-6	
Fluoride	**0.052J**	mg/L	0.10	0.050	1		09/20/21 13:26	16984-48-8	
Sulfate	**70.9**	mg/L	1.0	0.50	1		09/20/21 13:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: PZ-18 **Lab ID: 92561680016** Collected: 09/16/21 13:05 Received: 09/17/21 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/17/21 10:53		
pH	**6.85**	Std. Units			1		09/17/21 10:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**135**	mg/L	1.0	0.12	1	09/30/21 10:15	09/30/21 19:31	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 16:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 16:26	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 16:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 16:26	7440-41-7	
Boron	**0.31**	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 16:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 16:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 16:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 16:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 16:26	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 16:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 16:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 16:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 16:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/29/21 11:10	09/30/21 08:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**419**	mg/L	10.0	10.0	1		09/23/21 13:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.7**	mg/L	1.0	0.60	1		09/20/21 13:42	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/20/21 13:42	16984-48-8	
Sulfate	**86.9**	mg/L	1.0	0.50	1		09/20/21 13:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: PZ-33 **Lab ID: 92561680017** Collected: 09/16/21 16:30 Received: 09/17/21 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/17/21 10:53		
pH	**7.10**	Std. Units			1		09/17/21 10:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**92.0**	mg/L	1.0	0.12	1	09/30/21 10:15	09/30/21 19:36	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 16:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 16:32	7440-38-2	
Barium	**0.039**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 16:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 16:32	7440-41-7	
Boron	**0.31**	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 16:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 16:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 16:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 16:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 16:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 16:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 16:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 16:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 16:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/29/21 11:10	09/30/21 08:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**296**	mg/L	10.0	10.0	1		09/23/21 13:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.5**	mg/L	1.0	0.60	1		09/20/21 13:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/20/21 13:58	16984-48-8	
Sulfate	**40.4**	mg/L	1.0	0.50	1		09/20/21 13:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Sample: DUP-2 **Lab ID: 92561680018** Collected: 09/16/21 00:00 Received: 09/17/21 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**94.6**	mg/L	1.0	0.12	1	09/30/21 10:15	09/30/21 19:40	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/29/21 10:00	09/29/21 16:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 16:38	7440-38-2	
Barium	**0.039**	mg/L	0.0050	0.00067	1	09/29/21 10:00	09/29/21 16:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/21 10:00	09/29/21 16:38	7440-41-7	
Boron	**0.31**	mg/L	0.040	0.0086	1	09/29/21 10:00	09/29/21 16:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/21 10:00	09/29/21 16:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/21 10:00	09/29/21 16:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/21 10:00	09/29/21 16:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/29/21 10:00	09/29/21 16:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/21 10:00	09/29/21 16:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/21 10:00	09/29/21 16:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/21 10:00	09/29/21 16:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/21 10:00	09/29/21 16:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/29/21 11:10	09/30/21 08:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**293**	mg/L	10.0	10.0	1		09/23/21 13:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.5**	mg/L	1.0	0.60	1		09/20/21 14:46	16887-00-6	
Fluoride	**0.053J**	mg/L	0.10	0.050	1		09/20/21 14:46	16984-48-8	
Sulfate	**40.6**	mg/L	1.0	0.50	1		09/20/21 14:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

QC Batch: 649648
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92561680001, 92561680002, 92561680003, 92561680004, 92561680005, 92561680006, 92561680007, 92561680008, 92561680009

METHOD BLANK: 3407003 Matrix: Water
Associated Lab Samples: 92561680001, 92561680002, 92561680003, 92561680004, 92561680005, 92561680006, 92561680007, 92561680008, 92561680009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/29/21 16:41	

LABORATORY CONTROL SAMPLE: 3407004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3407005 3407006

Parameter	Units	92561303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	45.1	1	1	46.7	46.4	160	129	75-125	1	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

QC Batch: 650016
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92561680010, 92561680011, 92561680012, 92561680013, 92561680014, 92561680015, 92561680016, 92561680017, 92561680018

METHOD BLANK: 3409429 Matrix: Water
Associated Lab Samples: 92561680010, 92561680011, 92561680012, 92561680013, 92561680014, 92561680015, 92561680016, 92561680017, 92561680018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/30/21 18:01	

LABORATORY CONTROL SAMPLE: 3409430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3409431 3409432

Parameter	Units	92561637001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	72.7	1	1	72.0	73.0	-71	25	75-125	1	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

QC Batch: 649681
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92561680001, 92561680002, 92561680003, 92561680004, 92561680005, 92561680006, 92561680007, 92561680008, 92561680009, 92561680010, 92561680011, 92561680012, 92561680013, 92561680014, 92561680015, 92561680016, 92561680017, 92561680018

METHOD BLANK: 3407199
Matrix: Water
Associated Lab Samples: 92561680001, 92561680002, 92561680003, 92561680004, 92561680005, 92561680006, 92561680007, 92561680008, 92561680009, 92561680010, 92561680011, 92561680012, 92561680013, 92561680014, 92561680015, 92561680016, 92561680017, 92561680018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/29/21 14:05	
Arsenic	mg/L	ND	0.0050	0.0011	09/29/21 14:05	
Barium	mg/L	ND	0.0050	0.00067	09/29/21 14:05	
Beryllium	mg/L	ND	0.00050	0.000054	09/29/21 14:05	
Boron	mg/L	ND	0.040	0.0086	09/29/21 14:05	
Cadmium	mg/L	ND	0.00050	0.00011	09/29/21 14:05	
Chromium	mg/L	ND	0.0050	0.0011	09/29/21 14:05	
Cobalt	mg/L	ND	0.0050	0.00039	09/29/21 14:05	
Lead	mg/L	ND	0.0010	0.00089	09/29/21 14:05	
Lithium	mg/L	ND	0.030	0.00073	09/29/21 14:05	
Molybdenum	mg/L	ND	0.010	0.00074	09/29/21 14:05	
Selenium	mg/L	ND	0.0050	0.0014	09/29/21 14:05	
Thallium	mg/L	ND	0.0010	0.00018	09/29/21 14:05	

LABORATORY CONTROL SAMPLE: 3407200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	105	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3407201 3407202

Parameter	Units	92561680002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0011J	0.1	0.1	0.11	0.10	105	103	75-125	3	20	
Arsenic	mg/L	0.0014J	0.1	0.1	0.098	0.098	97	97	75-125	0	20	
Barium	mg/L	0.0041J	0.1	0.1	0.10	0.10	101	97	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.10	107	103	75-125	3	20	
Boron	mg/L	0.011J	1	1	1.1	1.1	107	105	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	2	20	
Chromium	mg/L	0.0084	0.1	0.1	0.11	0.11	101	100	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	4	20	
Lithium	mg/L	0.0013J	0.1	0.1	0.11	0.10	105	102	75-125	2	20	
Molybdenum	mg/L	0.00077J	0.1	0.1	0.10	0.10	100	99	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

QC Batch: 649668
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92561680001, 92561680002, 92561680003, 92561680004, 92561680005, 92561680006, 92561680007, 92561680008, 92561680009, 92561680010, 92561680011, 92561680012, 92561680013, 92561680014, 92561680015

METHOD BLANK: 3407115 Matrix: Water
Associated Lab Samples: 92561680001, 92561680002, 92561680003, 92561680004, 92561680005, 92561680006, 92561680007, 92561680008, 92561680009, 92561680010, 92561680011, 92561680012, 92561680013, 92561680014, 92561680015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/28/21 19:41	

LABORATORY CONTROL SAMPLE: 3407116

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3407117 3407118

Parameter	Units	92561637001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0025	98	99	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

QC Batch: 649909
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92561680016, 92561680017, 92561680018

METHOD BLANK: 3408479 Matrix: Water
Associated Lab Samples: 92561680016, 92561680017, 92561680018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/30/21 08:20	

LABORATORY CONTROL SAMPLE: 3408480

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3408481 3408482

Parameter	Units	92562753004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0021	0.0020	82	79	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

QC Batch: 648469
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92561680001, 92561680002, 92561680003, 92561680004

METHOD BLANK: 3400861 Matrix: Water
Associated Lab Samples: 92561680001, 92561680002, 92561680003, 92561680004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/21/21 12:32	

LABORATORY CONTROL SAMPLE: 3400862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	392	98	90-111	

SAMPLE DUPLICATE: 3400863

Parameter	Units	92561295001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	788	808	3	10	

SAMPLE DUPLICATE: 3400864

Parameter	Units	92560768020 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	882	916	4	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

QC Batch: 648470
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92561680005, 92561680006, 92561680007, 92561680008, 92561680009, 92561680010, 92561680011

METHOD BLANK: 3400865 Matrix: Water
Associated Lab Samples: 92561680005, 92561680006, 92561680007, 92561680008, 92561680009, 92561680010, 92561680011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/21/21 19:07	

LABORATORY CONTROL SAMPLE: 3400866

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	90-111	

SAMPLE DUPLICATE: 3400867

Parameter	Units	92562042001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	74.0	5	10	

SAMPLE DUPLICATE: 3400868

Parameter	Units	92560768028 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

QC Batch: 648744
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92561680012, 92561680013, 92561680014, 92561680015, 92561680016, 92561680017, 92561680018

METHOD BLANK: 3402584 Matrix: Water
Associated Lab Samples: 92561680012, 92561680013, 92561680014, 92561680015, 92561680016, 92561680017, 92561680018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/23/21 13:16	

LABORATORY CONTROL SAMPLE: 3402585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	388	97	90-111	

SAMPLE DUPLICATE: 3402586

Parameter	Units	92560768005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	321	321	0	10	H1

SAMPLE DUPLICATE: 3402587

Parameter	Units	92562006004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	440	780	56	10	D6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

QC Batch: 647979
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92561680001, 92561680002, 92561680003, 92561680004, 92561680009, 92561680010

METHOD BLANK: 3398609 Matrix: Water
Associated Lab Samples: 92561680001, 92561680002, 92561680003, 92561680004, 92561680009, 92561680010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/17/21 23:38	
Fluoride	mg/L	ND	0.10	0.050	09/17/21 23:38	
Sulfate	mg/L	ND	1.0	0.50	09/17/21 23:38	

LABORATORY CONTROL SAMPLE: 3398610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	52.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398611 3398612

Parameter	Units	92561816013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11900	50	50	12800	13000	1830	2190	90-110	1	10	M1
Fluoride	mg/L	3.6	2.5	2.5	4.3	21.0	29	698	90-110	132	10	M1,R1
Sulfate	mg/L	8660	50	50	9380	9600	1430	1880	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398613 3398614

Parameter	Units	92560768026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	29.9	50	50	65.4	66.1	71	72	90-110	1	10	M1
Fluoride	mg/L	0.098J	2.5	2.5	2.8	2.8	109	109	90-110	0	10	
Sulfate	mg/L	325	50	50	365	368	81	86	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

QC Batch: 648189
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92561680011

METHOD BLANK: 3399514 Matrix: Water
Associated Lab Samples: 92561680011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/18/21 14:35	
Fluoride	mg/L	ND	0.10	0.050	09/18/21 14:35	
Sulfate	mg/L	ND	1.0	0.50	09/18/21 14:35	

LABORATORY CONTROL SAMPLE: 3399515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.9	106	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	51.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3399516 3399517

Parameter	Units	92561571002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	23.0	50	50	80.2	82.8	115	120	90-110	3	10	M1
Fluoride	mg/L	0.38	2.5	2.5	4.4	4.4	161	161	90-110	0	10	M1
Sulfate	mg/L	ND	50	50	55.7	56.4	111	113	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3399518 3399519

Parameter	Units	92562010002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.7	50	50	63.3	63.8	101	102	90-110	1	10	
Fluoride	mg/L	0.10	2.5	2.5	2.6	2.6	98	98	90-110	0	10	
Sulfate	mg/L	8.6	50	50	58.8	59.3	100	101	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
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QUALITY CONTROL DATA

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

QC Batch: 648316
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92561680012, 92561680013, 92561680014, 92561680015, 92561680016, 92561680017, 92561680018

METHOD BLANK: 3400148 Matrix: Water
Associated Lab Samples: 92561680012, 92561680013, 92561680014, 92561680015, 92561680016, 92561680017, 92561680018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/20/21 06:49	
Fluoride	mg/L	ND	0.10	0.050	09/20/21 06:49	
Sulfate	mg/L	ND	1.0	0.50	09/20/21 06:49	

LABORATORY CONTROL SAMPLE: 3400149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.8	94	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400150 3400151

Parameter	Units	92561639001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L				88.9	91.4				3	10	M1
Fluoride	mg/L				2.3	2.4				6	10	
Sulfate	mg/L				45.9	48.7				6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400152 3400153

Parameter	Units	92561173007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	319	50	50	361	356	84	74	90-110	1	10	M1
Fluoride	mg/L	18.4	2.5	2.5	20.2	20.0	72	63	90-110	1	10	M1
Sulfate	mg/L	55.7	50	50	91.4	90.1	71	69	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

QC Batch: 648771
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92561680005, 92561680006, 92561680007, 92561680008

METHOD BLANK: 3402697 Matrix: Water
Associated Lab Samples: 92561680005, 92561680006, 92561680007, 92561680008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/22/21 18:32	
Fluoride	mg/L	ND	0.10	0.050	09/22/21 18:32	
Sulfate	mg/L	ND	1.0	0.50	09/22/21 18:32	

LABORATORY CONTROL SAMPLE: 3402698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.0	94	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	49.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3402699 3402700

Parameter	Units	92562297002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	61.7	50	50	97.2	98.1	71	73	90-110	1	10	M1
Fluoride	mg/L	0.52	2.5	2.5	2.8	2.9	93	95	90-110	2	10	
Sulfate	mg/L	114	50	50	157	158	87	89	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALIFIERS

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92561680002	**PZ-2D**				
92561680003	**PZ-32**				
92561680004	**PZ-1D**				
92561680006	**PZ-31**				
92561680007	**PZ-14**				
92561680008	**PZ-23A**				
92561680009	**PZ-16**				
92561680010	**PZ-15**				
92561680011	**PZ-25**				
92561680012	**PZ-7D**				
92561680013	**PZ-19**				
92561680015	**PZ-17**				
92561680016	**PZ-18**				
92561680017	**PZ-33**				
92561680001	**FB-1**	EPA 3010A	649648	EPA 6010D	649927
92561680002	**PZ-2D**	EPA 3010A	649648	EPA 6010D	649927
92561680003	**PZ-32**	EPA 3010A	649648	EPA 6010D	649927
92561680004	**PZ-1D**	EPA 3010A	649648	EPA 6010D	649927
92561680005	**EB-1**	EPA 3010A	649648	EPA 6010D	649927
92561680006	**PZ-31**	EPA 3010A	649648	EPA 6010D	649927
92561680007	**PZ-14**	EPA 3010A	649648	EPA 6010D	649927
92561680008	**PZ-23A**	EPA 3010A	649648	EPA 6010D	649927
92561680009	**PZ-16**	EPA 3010A	649648	EPA 6010D	649927
92561680010	**PZ-15**	EPA 3010A	650016	EPA 6010D	650179
92561680011	**PZ-25**	EPA 3010A	650016	EPA 6010D	650179
92561680012	**PZ-7D**	EPA 3010A	650016	EPA 6010D	650179
92561680013	**PZ-19**	EPA 3010A	650016	EPA 6010D	650179
92561680014	**DUP-1**	EPA 3010A	650016	EPA 6010D	650179
92561680015	**PZ-17**	EPA 3010A	650016	EPA 6010D	650179
92561680016	**PZ-18**	EPA 3010A	650016	EPA 6010D	650179
92561680017	**PZ-33**	EPA 3010A	650016	EPA 6010D	650179
92561680018	**DUP-2**	EPA 3010A	650016	EPA 6010D	650179
92561680001	**FB-1**	EPA 3005A	649681	EPA 6020B	649934
92561680002	**PZ-2D**	EPA 3005A	649681	EPA 6020B	649934
92561680003	**PZ-32**	EPA 3005A	649681	EPA 6020B	649934
92561680004	**PZ-1D**	EPA 3005A	649681	EPA 6020B	649934
92561680005	**EB-1**	EPA 3005A	649681	EPA 6020B	649934
92561680006	**PZ-31**	EPA 3005A	649681	EPA 6020B	649934
92561680007	**PZ-14**	EPA 3005A	649681	EPA 6020B	649934
92561680008	**PZ-23A**	EPA 3005A	649681	EPA 6020B	649934
92561680009	**PZ-16**	EPA 3005A	649681	EPA 6020B	649934
92561680010	**PZ-15**	EPA 3005A	649681	EPA 6020B	649934
92561680011	**PZ-25**	EPA 3005A	649681	EPA 6020B	649934
92561680012	**PZ-7D**	EPA 3005A	649681	EPA 6020B	649934
92561680013	**PZ-19**	EPA 3005A	649681	EPA 6020B	649934
92561680014	**DUP-1**	EPA 3005A	649681	EPA 6020B	649934
92561680015	**PZ-17**	EPA 3005A	649681	EPA 6020B	649934

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92561680016	**PZ-18**	EPA 3005A	649681	EPA 6020B	649934
92561680017	**PZ-33**	EPA 3005A	649681	EPA 6020B	649934
92561680018	**DUP-2**	EPA 3005A	649681	EPA 6020B	649934
92561680001	**FB-1**	EPA 7470A	649668	EPA 7470A	649676
92561680002	**PZ-2D**	EPA 7470A	649668	EPA 7470A	649676
92561680003	**PZ-32**	EPA 7470A	649668	EPA 7470A	649676
92561680004	**PZ-1D**	EPA 7470A	649668	EPA 7470A	649676
92561680005	**EB-1**	EPA 7470A	649668	EPA 7470A	649676
92561680006	**PZ-31**	EPA 7470A	649668	EPA 7470A	649676
92561680007	**PZ-14**	EPA 7470A	649668	EPA 7470A	649676
92561680008	**PZ-23A**	EPA 7470A	649668	EPA 7470A	649676
92561680009	**PZ-16**	EPA 7470A	649668	EPA 7470A	649676
92561680010	**PZ-15**	EPA 7470A	649668	EPA 7470A	649676
92561680011	**PZ-25**	EPA 7470A	649668	EPA 7470A	649676
92561680012	**PZ-7D**	EPA 7470A	649668	EPA 7470A	649676
92561680013	**PZ-19**	EPA 7470A	649668	EPA 7470A	649676
92561680014	**DUP-1**	EPA 7470A	649668	EPA 7470A	649676
92561680015	**PZ-17**	EPA 7470A	649668	EPA 7470A	649676
92561680016	**PZ-18**	EPA 7470A	649909	EPA 7470A	649953
92561680017	**PZ-33**	EPA 7470A	649909	EPA 7470A	649953
92561680018	**DUP-2**	EPA 7470A	649909	EPA 7470A	649953
92561680001	**FB-1**	SM 2540C-2011	648469		
92561680002	**PZ-2D**	SM 2540C-2011	648469		
92561680003	**PZ-32**	SM 2540C-2011	648469		
92561680004	**PZ-1D**	SM 2540C-2011	648469		
92561680005	**EB-1**	SM 2540C-2011	648470		
92561680006	**PZ-31**	SM 2540C-2011	648470		
92561680007	**PZ-14**	SM 2540C-2011	648470		
92561680008	**PZ-23A**	SM 2540C-2011	648470		
92561680009	**PZ-16**	SM 2540C-2011	648470		
92561680010	**PZ-15**	SM 2540C-2011	648470		
92561680011	**PZ-25**	SM 2540C-2011	648470		
92561680012	**PZ-7D**	SM 2540C-2011	648744		
92561680013	**PZ-19**	SM 2540C-2011	648744		
92561680014	**DUP-1**	SM 2540C-2011	648744		
92561680015	**PZ-17**	SM 2540C-2011	648744		
92561680016	**PZ-18**	SM 2540C-2011	648744		
92561680017	**PZ-33**	SM 2540C-2011	648744		
92561680018	**DUP-2**	SM 2540C-2011	648744		
92561680001	**FB-1**	EPA 300.0 Rev 2.1 1993	647979		
92561680002	**PZ-2D**	EPA 300.0 Rev 2.1 1993	647979		
92561680003	**PZ-32**	EPA 300.0 Rev 2.1 1993	647979		
92561680004	**PZ-1D**	EPA 300.0 Rev 2.1 1993	647979		
92561680005	**EB-1**	EPA 300.0 Rev 2.1 1993	648771		
92561680006	**PZ-31**	EPA 300.0 Rev 2.1 1993	648771		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL FALL SEMIANUNAL
Pace Project No.: 92561680

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92561680007	**PZ-14**	EPA 300.0 Rev 2.1 1993	648771		
92561680008	**PZ-23A**	EPA 300.0 Rev 2.1 1993	648771		
92561680009	**PZ-16**	EPA 300.0 Rev 2.1 1993	647979		
92561680010	**PZ-15**	EPA 300.0 Rev 2.1 1993	647979		
92561680011	**PZ-25**	EPA 300.0 Rev 2.1 1993	648189		
92561680012	**PZ-7D**	EPA 300.0 Rev 2.1 1993	648316		
92561680013	**PZ-19**	EPA 300.0 Rev 2.1 1993	648316		
92561680014	**DUP-1**	EPA 300.0 Rev 2.1 1993	648316		
92561680015	**PZ-17**	EPA 300.0 Rev 2.1 1993	648316		
92561680016	**PZ-18**	EPA 300.0 Rev 2.1 1993	648316		
92561680017	**PZ-33**	EPA 300.0 Rev 2.1 1993	648316		
92561680018	**DUP-2**	EPA 300.0 Rev 2.1 1993	648316		

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Wood E+F (GA Power) Project #:

WO# : 92561680

92561680

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/16/21 CAH

812194945 36

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID 214 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.3 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9
-Includes Date/Time/ID/Analysis Matrix:	W			P
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project # WO#: 92561680

PM: NMG Due Date: 09/30/21

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP2N	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2					
2		1	1			1																		2					
3		1	1			1																		2					
4		1	1			1																		2					
5		1	1			1																		2					
6		1	1			1																		2					
7		1	1			1																		2					
8		1	1			1																		2					
9		1	1			1																		2					
10		1	1			1																		4					
11		1	1			1																		2					
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Wood E&I (GA Power)	Report To:	Daniel Howard	Attention:	
Address:	1075 Big Shanty Road	Copy To:	Jaja Abraham JAbraham@southernco.com	Company Name:	
	Kennesaw, GA 30144	Purchase Order #		Address:	
Email:	daniel howard2@woodplc.com	Project Name	Mitchell Fa Sem Annual GW	Pace Quote:	
Phone:	(770)421-3382 Fax:	Project #:	6122160170	Pace Project Manager:	nicole.d'oleo@pacelabs.com,
Requested Due Date:	Standard			Pace Profile #:	10834

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	FB-1	WT	G	~~9/14/21~~ pH		9/14/21	1405		5	X		X						1	1	1	2			
2	PZ-2D	WT	G			9/14/21	1512		5	X		X						1	1	1	2			pH=8.96
3	PZ-32	WT	G			9/14/21	1642		5	X		X						1	1	1	2			pH=7.31
4	PZ-1D	WT	G			9/14/21	1620		5	X		X						1	1	1	2			pH=7.45
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	9/15/21	1800	Chandler Hunter	9/16/21	1620	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 9/15/21

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A	Section B	Section C	
Required Client Information:	Required Project Information:	Invoice Information:	
Company: Wood E&I (GA Power)	Report To: Daniel Howard	Attention:	
Address: 1075 Big Shanty Road	Copy To: Taju Abraham JAbraham@southernco.com	Company Name:	Regulatory Agency
Kennesaw, GA 30144	Purchase Order #:	Address:	
Email: daniel.howard2@woodplc.com	Project Name: Mitchell Fall Semi Annual GW	Pace Quote:	
Phone: (770)421-3382 Fax	Project #: 612160170	Pace Project Manager: nicole.doleo@pacelabs.com	State / Location: GA
Requested Due Date: standard		Pace Profile #: 10834	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	EB-1	WT	G			9/15/21	0910		5	X		X							1	1	1	2		
2	PZ-31	WT	G				1020		5	X		X							1	1	1	2		pH=6.99
3	PZ-14	WT	G				1255		5	X		X							1	1	1	2		pH=6.94
4	PZ-23A	WT	G				1525		5	X		X							1	1	1	2		pH=6.72
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/Wood	9/15/21	1800	[illegible]	9/16/21	1020	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Daniel Howard					
SIGNATURE of SAMPLER:	Daniel Howard	DATE Signed: 9/15/21				

Shipping Order Form - Bottle Order

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CHAIN-OF-CUSTODY / Analytical Request Document

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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions

Section A — Required Client Information:
Company: Wood E&I (GA Power)
Address: 1075 Big Shanty Road
Kennesaw, GA 30144
Email: daniel.howard2@woodplc.com
Phone: (770)421-3382 Fax:
Requested Due Date: Standard

Section B — Required Project Information:
Report To: Daniel Howard
Copy To: Jeff Abraham JAbraham@southernco.com
Purchase Order #:
Project Name: Mitchell Fall Semi Annual GW
Project #: 6122160170

Section C — Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager:
Pace Profile #: 10834

Page: 1 of

Regulatory Agency
State / Location: GA

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Cl, F, SO4	TDS	App. III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	PZ-16	WT	G			9/15/21	1058		5	X		X						1	1	1	2		pH=7.12
2	PZ-16QC	WT	G				1058		2			X									2		
3	PZ-15	WT	G				1350		5	X		X						1	1	1	2		pH=7.09
4	PZ-25	WT	G				1540		5	X		X						1	1	1	2		pH=7.05
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Matrix codes: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Daniel Howard / Wood	9/15/21	1800	[signature]	9/16	1020	5.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Daniel Howard
SIGNATURE of SAMPLER: [signature]
DATE Signed: 9/15/21

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: wood ES1 GA power

Project #:

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: MT 9/17/

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.6 **Correction Factor:** Add/Subtract (°C) ±0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.5

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

FEDEX TN 8121 9344 4570 & 8121 9344 4580

PZ-19 Collected @ 13:58

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	13 P I N	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2	2				
2																								2	2				
3		1	1			1																		2	2				
4		1	1			1																		2	2				
5		1	1			1																		2	2				
6		1	1			1																		2	2				
7		1	1			1																		2	2				
8		1	1			1																		2	2				
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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Page : 1 Of 1

Section A	Section B	Section C
Required Client Information:	Required Project Information:	Invoice Information:
Company: Wood E&I (GA Power)	Report To: Daniel Howard	Attention:
Address: 1075 Big Shanty Road	Copy To: Joyce Abraham JAbraham@southernco.com	Company Name:
Kennesaw, GA 30144	Purchase Order #:	Address:
Email: daniel.howard2@woodplc.com	Project Name: Mitchell Fall Semi Annual GW	Pace Quote:
Phone: (770)421-3382 Fax:	Project #: 612216170	Pace Project Manager: nicole.d'olio@pacelabs.com
Requested Due Date: Standard		Pace Profile #: 10834

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	PZ-7D	WT	G			9/16/21	1105		5	X		X							1	1	1	2		pH = 6.96
2	PZ-7D QC	WT	G				1105		2			X										2		
3	PZ-19	WT	G						5	X		X							1	1	1	2		pH = 6.77
4	DUP-1	WT	G			↓	—		5	X		X							1	1	1	2		pH = 6.77
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel L Howard Wood	9/16/21	1800		9/17/21	0950	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 9/16/21

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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Page : 1 Of 1

Section A
Required Client Information:
Company: Wood E&I (GA Power)
Address: 1075 Big Shanty Road
Kennesaw, GA 30144
Email: daniel.howard2@woodplc.com
Phone: (770)421-3382 Fax
Requested Due Date: Standard

Section B
Required Project Information:
Report To: Daniel Howard
Copy To: Jeju Abraham JAbraham@southernco.com
Purchase Order #:
Project Name: Mitchell Fall Sem Annual GW
Project #: 6122160170

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: nicole.d'oleo@pacelabs.com,
Pace Profile #: 10834

Regulatory Agency:
State / Location: GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	PZ-17	WT	G			9/14/21	1045		5	X		X							1	1	1	2		pH = 7.03
2	PZ-18	WT	G				1305		5	X		X							1	1	1	2		pH = 6.85
3	PZ-33	WT	G				1630		5	X		X							1	1	1	2		pH = 7.10
4	DUP-2	WT	G			↓	—		5	X		X							1	1	1	2		pH = 7.10
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/Wood	9/16/21	1800		9/17	0950	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Daniel Howard, Evee Guillen
SIGNATURE of SAMPLER: Daniel Howard E Guillen
DATE Signed: 9/16/21

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

October 29, 2021

Michelle Barker
WOOD E&I
1075 Big Shanty Rd
Suite 100
Kennesaw, GA 30144

RE: Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Dear Michelle Barker:

Enclosed are the analytical results for sample(s) received by the laboratory between September 16, 2021 and September 17, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Kristen Jurinko
Ms. Lauren Petty, Southern Company
Rhonda Quinn, WOOD E&I
Greg Wrenn, WOOD E&I

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
110 Technology Parkway
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SAMPLE SUMMARY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92561675001	**FB-1**	Water	09/14/21 14:05	09/16/21 10:20
92561675002	**PZ-2D**	Water	09/14/21 15:12	09/16/21 10:20
92561675003	**PZ-32**	Water	09/14/21 16:42	09/16/21 10:20
92561675004	**PZ-1D**	Water	09/14/21 16:20	09/16/21 10:20
92561675005	**EB-1**	Water	09/15/21 09:10	09/16/21 10:20
92561675006	**PZ-31**	Water	09/15/21 10:20	09/16/21 10:20
92561675007	**PZ-14**	Water	09/15/21 12:55	09/16/21 10:20
92561675008	**PZ-23A**	Water	09/15/21 15:25	09/16/21 10:20
92561675009	**PZ-16**	Water	09/15/21 10:58	09/16/21 10:20
92561675010	**PZ-15**	Water	09/15/21 13:50	09/16/21 10:20
92561675011	**PZ-25**	Water	09/15/21 15:40	09/16/21 10:20
92561675012	**PZ-7D**	Water	09/16/21 11:05	09/17/21 09:50
92561675013	**PZ-19**	Water	09/16/21 13:58	09/17/21 09:50
92561675014	**DUP-1**	Water	09/16/21 00:00	09/17/21 09:50
92561675015	**PZ-17**	Water	09/16/21 10:45	09/17/21 09:50
92561675016	**PZ-18**	Water	09/16/21 13:05	09/17/21 09:50
92561675017	**PZ-33**	Water	09/16/21 16:30	09/17/21 09:50
92561675018	**DUP-2**	Water	09/16/21 00:00	09/17/21 09:50

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SAMPLE ANALYTE COUNT

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92561675001	**FB-1**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675002	**PZ-2D**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675003	**PZ-32**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675004	**PZ-1D**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675005	**EB-1**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675006	**PZ-31**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675007	**PZ-14**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675008	**PZ-23A**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675009	**PZ-16**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675010	**PZ-15**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675011	**PZ-25**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675012	**PZ-7D**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675013	**PZ-19**	EPA 9315	JJY	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675014	**DUP-1**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675015	**PZ-17**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675016	**PZ-18**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675017	**PZ-33**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92561675018	**DUP-2**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92561675001	**FB-1**					
EPA 9315	Radium-226	0.188 ± 0.184 (0.355) C:99% T:NA	pCi/L		10/07/21 08:28	
EPA 9320	Radium-228	1.39 ± 0.519 (0.797) C:73% T:83%	pCi/L		10/06/21 11:17	
Total Radium Calculation	Total Radium	1.58 ± 0.703 (1.15)	pCi/L		10/07/21 15:35	
92561675002	**PZ-2D**					
EPA 9315	Radium-226	0.112 ± 0.251 (0.586) C:89% T:NA	pCi/L		10/07/21 08:28	
EPA 9320	Radium-228	0.860 ± 0.452 (0.805) C:62% T:87%	pCi/L		10/06/21 11:17	
Total Radium Calculation	Total Radium	0.972 ± 0.703 (1.39)	pCi/L		10/07/21 15:35	
92561675003	**PZ-32**					
EPA 9315	Radium-226	0.0721 ± 0.178 (0.427) C:85% T:NA	pCi/L		10/07/21 08:28	
EPA 9320	Radium-228	0.608 ± 0.379 (0.713) C:72% T:88%	pCi/L		10/06/21 11:17	
Total Radium Calculation	Total Radium	0.680 ± 0.557 (1.14)	pCi/L		10/07/21 15:35	
92561675004	**PZ-1D**					
EPA 9315	Radium-226	0.262 ± 0.295 (0.627) C:94% T:NA	pCi/L		10/07/21 08:28	
EPA 9320	Radium-228	0.270 ± 0.369 (0.792) C:74% T:90%	pCi/L		10/06/21 11:17	
Total Radium Calculation	Total Radium	0.532 ± 0.664 (1.42)	pCi/L		10/07/21 15:35	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92561675005	**EB-1**					
EPA 9315	Radium-226	0.0263 ± 0.142 (0.368) C:94% T:NA	pCi/L		10/07/21 08:28	
EPA 9320	Radium-228	0.687 ± 0.422 (0.799) C:76% T:82%	pCi/L		10/06/21 11:17	
Total Radium Calculation	Total Radium	0.713 ± 0.564 (1.17)	pCi/L		10/07/21 15:35	
92561675006	**PZ-31**					
EPA 9315	Radium-226	-0.00397 ± 0.151 (0.409) C:101% T:NA	pCi/L		10/07/21 08:28	
EPA 9320	Radium-228	0.0517 ± 0.297 (0.678) C:75% T:91%	pCi/L		10/06/21 11:17	
Total Radium Calculation	Total Radium	0.0517 ± 0.448 (1.09)	pCi/L		10/07/21 15:35	
92561675007	**PZ-14**					
EPA 9315	Radium-226	0.255 ± 0.227 (0.433) C:95% T:NA	pCi/L		10/07/21 08:28	
EPA 9320	Radium-228	0.617 ± 0.398 (0.760) C:71% T:87%	pCi/L		10/06/21 11:17	
Total Radium Calculation	Total Radium	0.872 ± 0.625 (1.19)	pCi/L		10/07/21 15:35	
92561675008	**PZ-23A**					
EPA 9315	Radium-226	0.191 ± 0.213 (0.432) C:85% T:NA	pCi/L		10/07/21 08:24	
EPA 9320	Radium-228	0.551 ± 0.436 (0.870) C:65% T:83%	pCi/L		10/06/21 11:17	
Total Radium Calculation	Total Radium	0.742 ± 0.649 (1.30)	pCi/L		10/07/21 15:35	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92561675009	**PZ-16**					
EPA 9315	Radium-226	0.281 ± 0.196 (0.294) C:91% T:NA	pCi/L		10/07/21 08:24	
EPA 9320	Radium-228	0.440 ± 0.466 (0.972) C:65% T:74%	pCi/L		10/06/21 11:17	
Total Radium Calculation	Total Radium	0.721 ± 0.662 (1.27)	pCi/L		10/07/21 15:35	
92561675010	**PZ-15**					
EPA 9315	Radium-226	0.220 ± 0.221 (0.438) C:88% T:NA	pCi/L		10/07/21 08:24	
EPA 9320	Radium-228	0.509 ± 0.487 (0.998) C:58% T:76%	pCi/L		10/06/21 11:17	
Total Radium Calculation	Total Radium	0.729 ± 0.708 (1.44)	pCi/L		10/07/21 15:35	
92561675011	**PZ-25**					
EPA 9315	Radium-226	0.470 ± 0.275 (0.419) C:84% T:NA	pCi/L		10/07/21 08:25	
EPA 9320	Radium-228	0.596 ± 0.429 (0.836) C:72% T:75%	pCi/L		10/06/21 11:18	
Total Radium Calculation	Total Radium	1.07 ± 0.704 (1.26)	pCi/L		10/07/21 15:35	
92561675012	**PZ-7D**					
EPA 9315	Radium-226	-0.0243 ± 0.114 (0.347) C:91% T:NA	pCi/L		10/08/21 08:40	
EPA 9320	Radium-228	0.382 ± 0.517 (1.11) C:59% T:81%	pCi/L		10/07/21 14:37	
Total Radium Calculation	Total Radium	0.382 ± 0.631 (1.46)	pCi/L		10/20/21 17:19	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92561675013	**PZ-19**					
EPA 9315	Radium-226	0.652 ± 0.318 (0.447) C:91% T:NA	pCi/L		10/08/21 08:00	
EPA 9320	Radium-228	0.749 ± 0.471 (0.879) C:60% T:87%	pCi/L		10/07/21 14:37	
Total Radium Calculation	Total Radium	1.40 ± 0.789 (1.33)	pCi/L		10/20/21 17:19	
92561675014	**DUP-1**					
EPA 9315	Radium-226	0.346 ± 0.155 (0.185) C:93% T:NA	pCi/L		10/19/21 08:42	
EPA 9320	Radium-228	0.108 ± 0.400 (0.910) C:59% T:86%	pCi/L		10/07/21 14:37	
Total Radium Calculation	Total Radium	0.454 ± 0.555 (1.10)	pCi/L		10/20/21 17:19	
92561675015	**PZ-17**					
EPA 9315	Radium-226	0.377 ± 0.220 (0.291) C:90% T:NA	pCi/L		10/08/21 08:01	
EPA 9320	Radium-228	-0.113 ± 0.424 (1.02) C:58% T:85%	pCi/L		10/07/21 14:37	
Total Radium Calculation	Total Radium	0.377 ± 0.644 (1.31)	pCi/L		10/20/21 17:19	
92561675016	**PZ-18**					
EPA 9315	Radium-226	-0.0109 ± 0.150 (0.413) C:94% T:NA	pCi/L		10/08/21 08:01	
EPA 9320	Radium-228	0.681 ± 0.545 (1.09) C:60% T:84%	pCi/L		10/07/21 14:37	
Total Radium Calculation	Total Radium	0.681 ± 0.695 (1.50)	pCi/L		10/20/21 17:19	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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SUMMARY OF DETECTION

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92561675017	**PZ-33**					
EPA 9315	Radium-226	0.0684 ± 0.159 (0.376) C:96% T:NA	pCi/L		10/08/21 08:01	
EPA 9320	Radium-228	0.116 ± 0.467 (1.06) C:62% T:80%	pCi/L		10/07/21 14:37	
Total Radium Calculation	Total Radium	0.184 ± 0.626 (1.44)	pCi/L		10/20/21 17:19	
92561675018	**DUP-2**					
EPA 9315	Radium-226	0.0537 ± 0.185 (0.454) C:91% T:NA	pCi/L		10/08/21 08:02	
EPA 9320	Radium-228	0.750 ± 0.512 (0.980) C:59% T:86%	pCi/L		10/07/21 14:37	
Total Radium Calculation	Total Radium	0.804 ± 0.697 (1.43)	pCi/L		10/20/21 17:19	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: FB-1 **Lab ID: 92561675001** Collected: 09/14/21 14:05 Received: 09/16/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.188 ± 0.184 (0.355) C:99% T:NA**	pCi/L	10/07/21 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.39 ± 0.519 (0.797) C:73% T:83%**	pCi/L	10/06/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.58 ± 0.703 (1.15)**	pCi/L	10/07/21 15:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: PZ-2D **Lab ID: 92561675002** Collected: 09/14/21 15:12 Received: 09/16/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.112 ± 0.251 (0.586) C:89% T:NA**	pCi/L	10/07/21 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.860 ± 0.452 (0.805) C:62% T:87%**	pCi/L	10/06/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.972 ± 0.703 (1.39)**	pCi/L	10/07/21 15:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: PZ-32 **Lab ID: 92561675003** Collected: 09/14/21 16:42 Received: 09/16/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0721 ± 0.178 (0.427) C:85% T:NA**	pCi/L	10/07/21 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.608 ± 0.379 (0.713) C:72% T:88%**	pCi/L	10/06/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.680 ± 0.557 (1.14)**	pCi/L	10/07/21 15:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: PZ-1D **Lab ID: 92561675004** Collected: 09/14/21 16:20 Received: 09/16/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.262 ± 0.295 (0.627) C:94% T:NA**	pCi/L	10/07/21 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.270 ± 0.369 (0.792) C:74% T:90%**	pCi/L	10/06/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.532 ± 0.664 (1.42)**	pCi/L	10/07/21 15:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: EB-1 **Lab ID: 92561675005** Collected: 09/15/21 09:10 Received: 09/16/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0263 ± 0.142 (0.368) C:94% T:NA**	pCi/L	10/07/21 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.687 ± 0.422 (0.799) C:76% T:82%**	pCi/L	10/06/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.713 ± 0.564 (1.17)**	pCi/L	10/07/21 15:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: PZ-31 **Lab ID: 92561675006** Collected: 09/15/21 10:20 Received: 09/16/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.00397 ± 0.151 (0.409) C:101% T:NA**	pCi/L	10/07/21 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0517 ± 0.297 (0.678) C:75% T:91%**	pCi/L	10/06/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0517 ± 0.448 (1.09)**	pCi/L	10/07/21 15:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: PZ-14 **Lab ID: 92561675007** Collected: 09/15/21 12:55 Received: 09/16/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.255 ± 0.227 (0.433) C:95% T:NA**	pCi/L	10/07/21 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.617 ± 0.398 (0.760) C:71% T:87%**	pCi/L	10/06/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.872 ± 0.625 (1.19)**	pCi/L	10/07/21 15:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: PZ-23A **Lab ID: 92561675008** Collected: 09/15/21 15:25 Received: 09/16/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.191 ± 0.213 (0.432) C:85% T:NA**	pCi/L	10/07/21 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.551 ± 0.436 (0.870) C:65% T:83%**	pCi/L	10/06/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.742 ± 0.649 (1.30)**	pCi/L	10/07/21 15:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: PZ-16 **Lab ID: 92561675009** Collected: 09/15/21 10:58 Received: 09/16/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.281 ± 0.196 (0.294) C:91% T:NA**	pCi/L	10/07/21 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.440 ± 0.466 (0.972) C:65% T:74%**	pCi/L	10/06/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.721 ± 0.662 (1.27)**	pCi/L	10/07/21 15:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: PZ-15 **Lab ID: 92561675010** Collected: 09/15/21 13:50 Received: 09/16/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.220 ± 0.221 (0.438) C:88% T:NA**	pCi/L	10/07/21 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.509 ± 0.487 (0.998) C:58% T:76%**	pCi/L	10/06/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.729 ± 0.708 (1.44)**	pCi/L	10/07/21 15:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: PZ-25 **Lab ID: 92561675011** Collected: 09/15/21 15:40 Received: 09/16/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.470 ± 0.275 (0.419) C:84% T:NA**	pCi/L	10/07/21 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.596 ± 0.429 (0.836) C:72% T:75%**	pCi/L	10/06/21 11:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.07 ± 0.704 (1.26)**	pCi/L	10/07/21 15:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: PZ-7D **Lab ID: 92561675012** Collected: 09/16/21 11:05 Received: 09/17/21 09:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0243 ± 0.114 (0.347) C:91% T:NA**	pCi/L	10/08/21 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.382 ± 0.517 (1.11) C:59% T:81%**	pCi/L	10/07/21 14:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.382 ± 0.631 (1.46)**	pCi/L	10/20/21 17:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: PZ-19 **Lab ID: 92561675013** Collected: 09/16/21 13:58 Received: 09/17/21 09:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.652 ± 0.318 (0.447) C:91% T:NA**	pCi/L	10/08/21 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.749 ± 0.471 (0.879) C:60% T:87%**	pCi/L	10/07/21 14:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.40 ± 0.789 (1.33)**	pCi/L	10/20/21 17:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: DUP-1 **Lab ID: 92561675014** Collected: 09/16/21 00:00 Received: 09/17/21 09:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.346 ± 0.155 (0.185) C:93% T:NA**	pCi/L	10/19/21 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.108 ± 0.400 (0.910) C:59% T:86%**	pCi/L	10/07/21 14:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.454 ± 0.555 (1.10)**	pCi/L	10/20/21 17:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: PZ-17 **Lab ID: 92561675015** Collected: 09/16/21 10:45 Received: 09/17/21 09:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.377 ± 0.220 (0.291) C:90% T:NA**	pCi/L	10/08/21 08:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.113 ± 0.424 (1.02) C:58% T:85%**	pCi/L	10/07/21 14:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.377 ± 0.644 (1.31)**	pCi/L	10/20/21 17:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: PZ-18 **Lab ID: 92561675016** Collected: 09/16/21 13:05 Received: 09/17/21 09:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0109 ± 0.150 (0.413) C:94% T:NA**	pCi/L	10/08/21 08:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.681 ± 0.545 (1.09) C:60% T:84%**	pCi/L	10/07/21 14:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.681 ± 0.695 (1.50)**	pCi/L	10/20/21 17:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: PZ-33 **Lab ID: 92561675017** Collected: 09/16/21 16:30 Received: 09/17/21 09:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0684 ± 0.159 (0.376) C:96% T:NA**	pCi/L	10/08/21 08:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.116 ± 0.467 (1.06) C:62% T:80%**	pCi/L	10/07/21 14:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.184 ± 0.626 (1.44)**	pCi/L	10/20/21 17:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Sample: DUP-2 **Lab ID: 92561675018** Collected: 09/16/21 00:00 Received: 09/17/21 09:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0537 ± 0.185 (0.454) C:91% T:NA**	pCi/L	10/08/21 08:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.750 ± 0.512 (0.980) C:59% T:86%**	pCi/L	10/07/21 14:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.804 ± 0.697 (1.43)**	pCi/L	10/20/21 17:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

QC Batch: 466410 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92561675012, 92561675013, 92561675014, 92561675015, 92561675016, 92561675017, 92561675018

METHOD BLANK: 2252279 Matrix: Water
Associated Lab Samples: 92561675012, 92561675013, 92561675014, 92561675015, 92561675016, 92561675017, 92561675018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.420 ± 0.367 (0.738) C:65% T:90%	pCi/L	10/07/21 11:22	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

QC Batch: 465348 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92561675001, 92561675002, 92561675003, 92561675004, 92561675005, 92561675006, 92561675007, 92561675008, 92561675009, 92561675010, 92561675011

METHOD BLANK: 2247079 Matrix: Water
Associated Lab Samples: 92561675001, 92561675002, 92561675003, 92561675004, 92561675005, 92561675006, 92561675007, 92561675008, 92561675009, 92561675010, 92561675011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.625 ± 0.317 (0.544) C:74% T:91%	pCi/L	10/06/21 11:18	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

QC Batch: 465350 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92561675001, 92561675002, 92561675003, 92561675004, 92561675005, 92561675006, 92561675007, 92561675008, 92561675009, 92561675010, 92561675011

METHOD BLANK: 2247083 Matrix: Water
Associated Lab Samples: 92561675001, 92561675002, 92561675003, 92561675004, 92561675005, 92561675006, 92561675007, 92561675008, 92561675009, 92561675010, 92561675011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0502 ± 0.146 (0.360) C:88% T:NA	pCi/L	10/07/21 08:30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

QC Batch: 466264
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92561675012, 92561675013, 92561675014, 92561675015, 92561675016, 92561675017, 92561675018

METHOD BLANK: 2251638
Matrix: Water
Associated Lab Samples: 92561675012, 92561675013, 92561675014, 92561675015, 92561675016, 92561675017, 92561675018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.284 ± 0.229 (0.421) C:95% T:NA	pCi/L	10/08/21 08:00	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92561675001	FB-1	EPA 9315	465350		
92561675002	PZ-2D	EPA 9315	465350		
92561675003	PZ-32	EPA 9315	465350		
92561675004	PZ-1D	EPA 9315	465350		
92561675005	EB-1	EPA 9315	465350		
92561675006	PZ-31	EPA 9315	465350		
92561675007	PZ-14	EPA 9315	465350		
92561675008	PZ-23A	EPA 9315	465350		
92561675009	PZ-16	EPA 9315	465350		
92561675010	PZ-15	EPA 9315	465350		
92561675011	PZ-25	EPA 9315	465350		
92561675012	PZ-7D	EPA 9315	466264		
92561675013	PZ-19	EPA 9315	466264		
92561675014	DUP-1	EPA 9315	466264		
92561675015	PZ-17	EPA 9315	466264		
92561675016	PZ-18	EPA 9315	466264		
92561675017	PZ-33	EPA 9315	466264		
92561675018	DUP-2	EPA 9315	466264		
92561675001	FB-1	EPA 9320	465348		
92561675002	PZ-2D	EPA 9320	465348		
92561675003	PZ-32	EPA 9320	465348		
92561675004	PZ-1D	EPA 9320	465348		
92561675005	EB-1	EPA 9320	465348		
92561675006	PZ-31	EPA 9320	465348		
92561675007	PZ-14	EPA 9320	465348		
92561675008	PZ-23A	EPA 9320	465348		
92561675009	PZ-16	EPA 9320	465348		
92561675010	PZ-15	EPA 9320	465348		
92561675011	PZ-25	EPA 9320	465348		
92561675012	PZ-7D	EPA 9320	466410		
92561675013	PZ-19	EPA 9320	466410		
92561675014	DUP-1	EPA 9320	466410		
92561675015	PZ-17	EPA 9320	466410		
92561675016	PZ-18	EPA 9320	466410		
92561675017	PZ-33	EPA 9320	466410		
92561675018	DUP-2	EPA 9320	466410		
92561675001	FB-1	Total Radium Calculation	467220		
92561675002	PZ-2D	Total Radium Calculation	467220		
92561675003	PZ-32	Total Radium Calculation	467220		
92561675004	PZ-1D	Total Radium Calculation	467220		
92561675005	EB-1	Total Radium Calculation	467220		
92561675006	PZ-31	Total Radium Calculation	467220		
92561675007	PZ-14	Total Radium Calculation	467220		
92561675008	PZ-23A	Total Radium Calculation	467220		
92561675009	PZ-16	Total Radium Calculation	467220		
92561675010	PZ-15	Total Radium Calculation	467220		
92561675011	PZ-25	Total Radium Calculation	467220		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL FALL SEMIANUNAL RADS
Pace Project No.: 92561675

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92561675012	**PZ-7D**	Total Radium Calculation	469110		
92561675013	**PZ-19**	Total Radium Calculation	469110		
92561675014	**DUP-1**	Total Radium Calculation	469110		
92561675015	**PZ-17**	Total Radium Calculation	469110		
92561675016	**PZ-18**	Total Radium Calculation	469110		
92561675017	**PZ-33**	Total Radium Calculation	469110		
92561675018	**DUP-2**	Total Radium Calculation	469110		

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Wood E+F (GA Power) Project #:

WO# : 92561675

92561675

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/16/21 CAM

8121939495 36

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID 214 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.3 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.2

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project # **WO# : 92561675**

PM: NMG Due Date: 10/07/21

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP2N	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2					
2		1	1			1																		2					
3		1	1			1																		2					
4		1	1			1																		2					
5		1	1			1																		2					
6		1	1			1																		2					
7		1	1			1																		2					
8		1	1			1																		2					
9		1	1			1																		2					
10		1	1			1																		4					
11		1	1			1																		2					
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Wood E&I (GA Power)	Report To: Daniel Howard	Attention:
Address: 1075 Big Shanty Road	Copy To: Iaja Abraham	Company Name:
Kennesaw, GA 30144	IAbraham@southernco.com	Address:
Email: daniel.howard2@woodplc.com	Purchase Order #	Pace Quote:
Phone: (770)421-3382 Fax:	Project Name: Mitchell Fall Semi Annual GW	Pace Project Manager: nicole.d'oleo@pacelabs.com,
Requested Due Date: standard	Project #: 612216017a	Pace Profile #: 10834

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	FB-1	WT	G	9/14/21 pH		9/14/21	1405		5	X		X						Y	1	1	1	2		
2	PZ-2D	WT	G			9/14/21	1512		5	X		X						Y	1	1	1	2		pH=8.96
3	PZ-32	WT	G			9/14/21	1642		5	X		X						Y	1	1	1	2		pH=7.31
4	PZ-1D	WT	G			9/14/21	1620		5	X		X						Y	1	1	1	2		pH=7.45
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/Wood	9/15/21	1800	Chandra Hunter	9/16/21	1620	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 9/15/21

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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Page : 1 Of 1

Section A	Section B	Section C	
Required Client Information:	Required Project Information:	Invoice Information:	
Company: Wood E&I (GA Power)	Report To: Daniel Howard	Attention:	
Address: 1075 Big Shanty Road	Copy To: Taju Abraham JAbraham@southernco.com	Company Name:	Regulatory Agency
Kennesaw, GA 30144	Purchase Order #:	Address:	
Email: daniel.howard2@woodplc.com	Project Name: Mitchell Fall Semi Annual GW	Pace Quote:	
Phone: (770)421-3382 Fax	Project #: 612216017O	Pace Project Manager: nicole.d'oleo@pacelabs.com	State / Location: GA
Requested Due Date: standard		Pace Profile #: 10834	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	EB-1	WT	G			9/15/21	0910		5	X		X							1	1	1	2		
2	PZ-31	WT	G				1020		5	X		X							1	1	1	2		pH=6.99
3	PZ-14	WT	G				1255		5	X		X							1	1	1	2		pH=6.94
4	PZ-23A	WT	G				1525		5	X		X							1	1	1	2		pH=6.72
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/Wood	9/15/21	1800	[illegible]	9/16/21	1020	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 9/15/21

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Shipping Order Form - Bottle Order

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Section A Required Client Information:

Company:	Wood E&I (GA Power)
Address:	1075 Big Shanty Road
	Kennesaw, GA 30144
Email:	daniel.howard2@woodplc.com
Phone:	(770)421-3380
Fax:	
Requested Due Date:	standard

Section B Required Project Information:

Report To:	Daniel Howard
Copy To:	Jeff Abraham / JAbraham@southernco.com
Purchase Order #:	
Project Name:	Michael Fell Semi Annual GW
Project #:	6122160170

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	[illegible]@pacelabs.com
Pace Profile #:	10834

Page: 1 Of 1

Regulatory Agency

State / Location: GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	PZ-16	WT	G	pH [illegible]		9/15/21	1058		5	X		X							1	1	1	2		pH=7.12
2	PZ-16 QC	WT	G				1058		2			X										2		
3	PZ-15	WT	G				1350		5	X		X							1	1	1	2		pH=7.09
4	PZ-25	WT	G				1540		5	X		X							1	1	1	2		pH=7.05
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Daniel Howard / Wood	9/15/21	1800	[illegible signature]	9/16	1020	5.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: D Howard

DATE Signed: 9/15/21

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical	Document Name: **Sample Condition Upon Receipt(SCUR)**	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: **F-CAR-CS-033-Rev.07**	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: wood E&T GA power

Project #:

Courier: ☐ Commercial ☑ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: MT 9/17/12

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.6 **Correction Factor:** Add/Subtract (°C) ±0.1

Cooler Temp Corrected (°C): 4.5

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

FEDEX TH 8121 9394 4570 & 8121 9394 4580

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

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Page : 1 Of 1

Section A	Section B	Section C
Required Client Information:	**Required Project Information:**	**Invoice Information:**
Company: Wood E&I (GA Power)	Report To: Daniel Howard	Attention:
Address: 1075 Big Shanty Road	Copy To: Teju Abraham JAbraham@southernco.com	Company Name:
Kennesaw, GA 30144		Address:
Email: daniel.howard2@woodplc.com	Purchase Order #:	Pace Quote:
Phone: (770)421-3382 Fax:	Project Name: Mitchell Fall Semi Annual GW	Pace Project Manager: nicole.d'oleo@pacelabs.com
Requested Due Date: Standard	Project #: 612216170	Pace Profile #: 10834

Regulatory Agency

State / Location
GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																									
1	PZ-7D	WT	G			9/16/21	1105		5	X		X							1	1	1	2		from pH = 6.96
2	PZ-7D QC	WT	G				1105		2			X										2		
3	PZ-19	WT	G						5	X		X							1	1	1	2		pH = 6.77
4	DUP-1	WT	G			↓	—		5	X		X							1	1	1	2		pH = 6.77
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel E Howard Wood	9/16/21	1800		9/17/21	0950	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed: 9/16/21

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A – Required Client Information:	Section B – Required Project Information:	Section C – Invoice Information:
Company: Wood E&I (GA Power)	Report To: Daniel Howard	Attention:
Address: 1075 Big Shanty Road	Copy To: Joju Abraham	Company Name:
Kennesaw, GA 30144	JAbraham@southernco.com	Address:
Email: daniel.howard2@woodplc.com	Purchase Order #:	Pace Quote:
Phone: (770)421-3382 Fax	Project Name: Mitchell Fall Semi Annual GW	Pace Project Manager: nicole.d'oleo@pacelabs.com,
Requested Due Date: Standard	Project #: 612216170	Pace Profile #: 10834

Regulatory Agency:

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)	Analyses Test: Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	PZ-17	WT	G			9/14/21	1045	3	5	X		X							1	1	1	2		pH = 7.03
2	PZ-18	WT	G				1305	3	5	X		X							1	1	1	2		pH = 6.85
3	PZ-33	WT	G				1630	3	5	X		X							1	1	1	2		pH = 7.10
4	DUP-2	WT	G				—	3	5	X		X							1	1	1	2		pH = 7.10
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/Wood	9/16/21	1800		9/17	0950	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard, Evee Guillen

SIGNATURE of SAMPLER: DHoward EGuillen DATE Signed: 9/16/21

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	10/1/2021
Worklist:	62852
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2247079
MB concentration:	0.625
M/B 2 Sigma CSU:	0.317
MB MDC:	0.544
MB Numerical Performance Indicator:	3.86
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS62852	LCSD62852
Count Date:	10/6/2021	10/6/2021
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.949	37.949
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.812	0.809
Target Conc. (pCi/L, g, F):	9.350	9.379
Uncertainty (Calculated):	0.458	0.460
Result (pCi/L, g, F):	8.389	7.162
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.704	1.451
Numerical Performance Indicator:	-1.07	-2.86
Percent Recovery:	89.73%	76.36%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS62852	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD62852	
Sample Result (pCi/L, g, F):	8.389	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.704	
Sample Duplicate Result (pCi/L, g, F):	7.162	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.451	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.075	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.10%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

10/7/21

10/7/21

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	10/5/2021
Worklist:	62922
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2252279
MB concentration:	0.420
M/B 2 Sigma CSU:	0.367
MB MDC:	0.738
MB Numerical Performance Indicator:	2.25
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS62922	LCSD62922
Count Date:	10/7/2021	10/7/2021
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.936	37.936
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.810	0.810
Target Conc. (pCi/L, g, F):	4.684	4.683
Uncertainty (Calculated):	0.229	0.229
Result (pCi/L, g, F):	4.993	5.479
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.158	1.201
Numerical Performance Indicator:	0.51	1.27
Percent Recovery:	106.61%	116.98%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS62922	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD62922	
Sample Result (pCi/L, g, F):	4.993	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.158	
Sample Duplicate Result (pCi/L, g, F):	5.479	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.201	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.571	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.28%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL 10/11/21

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	CLA
Date:	9/30/2021
Worklist:	62853
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2247083
MB concentration:	0.050
M/B Counting Uncertainty:	0.146
MB MDC:	0.360
MB Numerical Performance Indicator:	0.67
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS62853	LCSD62853
Count Date:	10/7/2021	10/7/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.033	24.033
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.519
Target Conc. (pCi/L, g, F):	4.761	4.633
Uncertainty (Calculated):	0.057	0.056
Result (pCi/L, g, F):	4.725	4.672
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.695	0.664
Numerical Performance Indicator:	-0.10	0.11
Percent Recovery:	99.25%	100.82%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS62853	92560765020
Duplicate Sample I.D.	LCSD62853	92560765020DUP
Sample Result (pCi/L, g, F):	4.725	1.170
Sample Result Counting Uncertainty (pCi/L, g, F):	0.695	0.367
Sample Duplicate Result (pCi/L, g, F):	4.672	1.156
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.664	0.354
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.109	0.052
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.57%	1.15%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

CW 10/7/21

LAM 10/7/21

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	JJY
Date:	10/5/2021
Worklist:	62912
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2251638
MB concentration:	0.284
M/B Counting Uncertainty:	0.225
MB MDC:	0.421
MB Numerical Performance Indicator:	2.47
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS62912	LCSD62912
Count Date:	10/8/2021	10/8/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.033	24.033
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.513
Target Conc. (pCi/L, g, F):	4.762	4.681
Uncertainty (Calculated):	0.057	0.056
Result (pCi/L, g, F):	3.783	4.467
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.618	0.667
Numerical Performance Indicator:	-3.09	-0.63
Percent Recovery:	79.43%	95.43%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS62912	92561675014
Duplicate Sample I.D.	LCSD62912	92561675014DUP
Sample Result (pCi/L, g, F):	3.783	0.346
Sample Result Counting Uncertainty (pCi/L, g, F):	0.618	0.147
Sample Duplicate Result (pCi/L, g, F):	4.467	0.199
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.667	0.131
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-1.476	1.469
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	18.29%	54.06%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~***Batch must be re-prepped due to unacceptable precision.~~ N/A
LAM 10/20/21

CW 10/20/21

LAM 10/20/21

DATA QUALITY EVALUATION

Data Evaluation Narrative
Project: Plant Mitchell CCR Groundwater Semiannual Event #16
Wood Project Number: 6122160170.2103.**
Site: Ash Ponds 1&2 - Plant Mitchell, Georgia
Matrix: Groundwater

Pace SDG Nos: 92561680

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the Semiannual Event #16 (September 2021) conducted at Ash Ponds 1 and 2 at Plant Mitchell, located in Albany, Georgia. The samples were collected and analyzed per the protocols presented in the *Draft* Plant Mitchell *Field Sampling Plan* (FSP) (SCS, 2016). The following sections provide summary discussions of the required data qualifications for the analytical methods for samples collected. A Level II DQE validation was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, method blanks, laboratory control samples (LCSs), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), post digestion spikes (PDS), where applicable, laboratory and field duplicate RPDs, field and/or equipment blanks, and reporting limits. Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and laboratory data report agree.

The data were reviewed using the laboratory's precision and accuracy limits, the method requirements, and any requirements listed in the FSP. It should be noted that at the time of this review, a finalized QAPP was not provided. DQE data qualifications were applied, if necessary, using the procedures in USEPA Region IV Data Validation Standard Operating Procedures (USEPA, 2011) and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020), as guidance, and professional judgment using the following qualifiers:

Qualifier	Usable Data
J	The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. *SCS Definition: Value J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce as reliable of a value. Therefore, the value displayed (value J) is qualified by the laboratory as estimated.*
UJ	The analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.
U	Analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. *Note: SCS does not use the "U" flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).*
U*	This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Qualifier	Unusable Data
R	The sample results are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be confirmed and the data are unusable.
UR	The analyte was analyzed for but was not detected above the level of the reported sample reporting or method detection, however the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

The analytical results for the samples reported in this SDG are usable with the qualifications discussed in this narrative. A summary of the data with associated qualifiers is presented in **Table 1**.

Deliverables

The data package as submitted to Wood Environment & Infrastructure Solutions, Inc. (Wood, formerly, Amec Foster Wheeler) is complete to perform a Level II DQE for United States Environmental Protection Agency (USEPA) Methods SW6020B, SW6010D, SW7470A, SM2540C, and EPA 300.0.

Sample Integrity

The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for Appendix III and Appendix IV metals (antimony, arsenic, barium, beryllium, boron, cadmium, chromium, cobalt, lead, lithium, molybdenum, selenium, and thallium) by Method SW6020B and SW6010D (calcium), mercury by Method SW7470A, anions (chloride, fluoride, and sulfate) by Method 300.0, and total dissolved solids (TDS) by Method SM2540C. The anions were analyzed by Pace-Asheville, North Carolina. Samples were also sent from Pace's Georgia facility to their laboratory in Greenburg, Pennsylvania and analyzed for radium-226, radium-228, and total radium by Methods SW9315 and SW9320. The radium data were reported and narrated separately.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact and within the temperature range and preservation requirements. Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following groundwater and quality control (QC) samples:

Sample ID	Sample Date	DQE Level	Sample ID	Sample Date	DQE Level
PZ-2D	09/14/21	II	PZ-19	09/16/21	II
PZ-32	09/14/21	II	PZ-17	09/16/21	II
PZ-1D	09/14/21	II	PZ-18	09/16/21	II
PZ-31	09/15/21	II	PZ-33	09/16/21	II
PZ-14	09/15/21	II	**QC Samples**		
PZ-23A	09/15/21	II	EB-01	09/15/21	II
PZ-16	09/15/21	II	FB-01	09/14/21	II
PZ-25	09/15/21	II	DUP-1	09/16/21	II
PZ-7D	09/16/21	II	DUP-2	09/16/21	II
PZ-15	09/15/21	II			

These samples were collected from Ash Ponds 1 and 2 on September 14 through September 16, 2021. Sample DUP-01 is a field duplicate of PZ-19, and DUP-02 is a field duplicate of PZ-33. The field QC blanks include samples FB-01 (a field blank sample) and EB-01 (an equipment blank).

The analytical results for the metals, mercury, and anions data are usable with the qualifications discussed in this narrative. A summary of the data quality is presented below.

Metals (SW6020B)

The samples were submitted to Pace for CCR Appendix III and Appendix IV metals by Methods SW6010D and SW6020B. The CCR Appendix III metals for this event are: boron (B) and calcium (Ca). The Appendix IV metals for this event are antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), cadmium (Cd), chromium (Cr), cobalt (Co), lead (Pb), lithium (Li), molybdenum (Mo), selenium (Se), and thallium (Tl). Each of the Level II components were within laboratory QC limits.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

The method blank associated with the samples analyzed within this SDG contained no reportable detections of metals.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD analysis was performed on sample PZ-2D, and the recoveries and RPDs were within QC limits.

Post Digestion Spike (PDS)

PDS analyses results were not reported within this Level 2 data package.

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. DUP-01 is associated with monitoring well PZ-19, and DUP-02 is associated with monitoring well PZ-33. Acceptable duplicate precision was achieved, and no qualification of the parent or duplicate samples was required.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. Equipment rinsate blanks are collected to monitor the decontamination process and field blanks are collected to assess the water used to decontaminate the equipment and the containers into which samples are placed. Sample FB-01 is a field blank and is associated with the samples reported in this SDG and reported no contamination for metals. Sample EB-01 is an equipment blank and is associated with the samples reported in this SDG and reported no contamination for metals.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of metals by USEPA Methods SW6010D and 6020B. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is maintained by the data validator unless overridden by qualification for other QC criteria.

Mercury (SW7470A)

The samples were submitted to Pace for mercury by Method SW7470A. Each of the Level II components were within laboratory QC limits.

Holding Times

The sample analyses were performed within the 28-day analysis holding time.

Method Blanks

The method blank associated with the samples analyzed within this SDG contained no reportable detections of mercury.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD analysis was not performed on any sample in this SDG for mercury.

Post Digestion Spike (PDS)

PDS analyses results were not reported within this Level 2 data package.

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. DUP-01 is associated with monitoring well PZ-19, and DUP-02 is associated with monitoring well PZ-33. Acceptable duplicate precision was achieved, and no qualification of the parent samples was required.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Mercury was not detected in the equipment blank or the field blank.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of mercury by USEPA Method SW7470A. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory; however, there were none reported in this SDG.

Anions (EPA 300)

The samples were submitted to Pace for anions (chloride, fluoride, and sulfate) by Method 300. Each of the Level II components were within laboratory QC limits.

Holding Times

The sample analyses were performed within the 28-day analysis holding time.

Method Blanks

The method blanks associated with the samples analyzed within this SDG contained no reportable detections of anions.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD analysis was not performed on any samples in this SDG for anions.

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. DUP-01 is associated with monitoring well PZ-19, and DUP-02 is associated with monitoring well PZ-33. Acceptable duplicate precision was achieved, and no qualification of the parent samples was required.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Anions were not detected in the equipment blank or the field blank.
Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of anions by USEPA Method 300. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is maintained by the data validator.

TDS (SM2540C)

The samples were submitted to Pace for TDS by Method SM2540C. Each of the Level II components were within QC limits.

Holding Times

The sample analyses were performed within the 7-day analysis holding time.

Method Blanks

The method blank associated with the samples analyzed within this SDG did not contain TDS.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Laboratory Duplicate Precision

Analysis of laboratory duplicates was not performed on any samples in this SDG.

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. DUP-01 is associated with monitoring well PZ-19 and DUP-02 is associated with monitoring well PZ-33. Acceptable duplicate precision was achieved, and no qualification of the associated samples was required.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

TDS was not detected in the equipment blank or the field blank.

Reporting Limits

The laboratory RL was below the screening value of 500 mg/L for samples submitted for the analysis of TDS by Method SM2540C and no samples required dilutions; therefore, RLs were met for this project.

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory; however, there were none reported in this SDG.

Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan. DQE flags were not applied or edited based on professional judgment.

References

SCS, 2016. *Draft Field Sampling Plan – Plant Mitchell*, Georgia Power Company, Earth Science and Environmental Engineering Technical Services, Southern Company Services, Inc. (SCS), August 17, 2016.

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

USEPA, 2020. *EPA National Functional Guidelines for Inorganic Superfund Methods Data Review*, Final, EPA-542-R-20-006, November 2020.

Prepared by/Date: JPM 10/13/2021
Checked By/Date: DWK 10/19/2021

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92561680
SAMPLING DATES: September 14-16, 2021
Plant Mitchell Ash Ponds 1 and 2

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
NO QUALIFICATION REQUIRED										

Notes:
Results qualified "J" due to detections between the MDL and RL are not included on this table unless overridden by other DQE qualifiers.

Prepared by/Date: JPM 10/18/21
Checked by/Date: DWK 10/19/21

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 16
Project No: 6122160170.2103.****
Method: Metals by SW6010D/SW6020B
Laboratory and Lot: Pace SDG: 92561680 (Pace – Peachtree Corners, GA)
Reviewer/Date: J. McIntyre 10/12/2021 **Senior Reviewer/Date:** D. Knaub 10/19/21

YES	NO	NA		COMMENTS
X			**Case Narrative and COC Completeness Review** No case narrative is included with Level II data package from Pace.	
X			**Sample Preservation and cooler temperature met (HNO_3 to pH<2; 6°C±2)** 5.2°C. OK	
X			**Holding times met (180 days)** OK	
X			**QC Blanks Review – any MB results above RL?** Method Blanks: p. 30 SW6010D MB 3407003 (Ca only) = ND p. 31 SW6010D MB 3409429 (Ca only) = ND p. 32 SW6020B MB 3407199 = ND Field/Equipment Blanks: EB-01 = ND (associated with samples on 9/15/21 only) FB-01 = ND *(associated with all samples)*	
X			**Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)** p. 30 SW6010D LCS 3407004 – Ca =113% OK p. 31 SW6010D LCS 3409430 – Ca =109% OK p. 32 SW6020B LCS 3407200 – All OK	
X			**Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**	

Constituent	PZ-19 (mg/L)	Dup-01 (mg/L)	RPD/Diff & RL	
Ca	137	135	1.5	
Ba	0.053	0.052	1.9	
B	0.46	0.44	4.4	
Li	0.013 J	0.013J	0	0.03
Mo	0.0021J	0.0021J	0	0.01
Se	0.0033J	0.0037J	0.0004	0.005
Tl	0.00066J	0.00066J	0	0.001

Field Duplicate (cont.)

Constituent	PZ-33 (mg/L)	Dup-02 (mg/L)	RPD/Diff & RL
Ca	92	94.6	2.8
Ba	0.039	0.039	0
B	0.31	0.31	0

In cases where results are less than the RL (lab "J" values), all differences between the parent sample and the duplicate were less than the RL per GP guidance and no flag is necessary other than to indicate the result is less than the RL (J).

X **Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)**

p. 30 SW6010D (Ca only) **–** *Not a sample from this SDG*
p. 31 SW6010D (Ca only) **–** *Not sample from this SDG*

p. 33 SW6020B ***PZ-2D*** - All %rec and RPDs OK

X **Post Digestion Spike recoveries within limits (if applicable: 80-120%)**

Not reported for L2 data package

X **Total metals vs dissolved metals (RPD < 20% or diff. < RL)**

No dissolved results in this SDG

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

Checked each sample in this SDG, all OK (18 samples total)

No samples in this SDG required a dilution.

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 16
Project No: 6122160170.2103.****
Method: Hg by SW7470A
Laboratory and Lot: Pace SDG: 92561680 (Pace – Peachtree Corners, GA)
Reviewer/Date: J. McIntyre 10/12/2021 **Senior Reviewer/Date:** D. Knaub 10/19/21

YES NO NA COMMENTS

No samples in this SDG required a dilution.

X **Case Narrative and COC Completeness Review**
No case narrative is included with Level II data package from Pace.

X **Sample Preservation and cooler temperature met (HNO_3 to pH<2; 6°C±2)**
5.2°C. OK

X **Holding times met (Hg = 28 days)**
OK

X **QC Blanks Review – any MB results above RL?**
Method Blanks:
p. 34 MB 3407115 Hg = ND p. 35 MB 3408479 Hg = ND
Field/Equipment Blanks:
EB-01 = ND (associated with samples on 9/15/21 only) FB-01 = ND *(associated with all samples)*

X **Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)**
p. 34 LCS 3407116 – Hg = 98% OK p. 36 LCS 3408480 – Hg = 89% OK

X **Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**

	PZ-19 (mg/L)	Dup-01 (mg/L)	RPD/Diff & RL
Hg	ND	ND	NA

	PZ-33 (mg/L)	Dup-02 (mg/L)	RPD/Diff & RL
Hg	ND	ND	NA

Same GP guidance as above for metals

X **Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)**

p. 34 **–** *Not samples from this SDG*
p. 35 **–** *Not samples from this SDG*

X **Total metals vs dissolved metals (RPD < 20% or diff. < RL)**
No dissolved results in this SDG

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**
Checked each sample in this SDG, all OK (18 samples total)

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 16
Project No: 6122160170.2103.****
Method: Anions (chloride, fluoride, sulfate) by EPA 300
Laboratory and Lot: Pace SDG: 92561680 (Pace – Asheville, NC)
Reviewer/Date: J. McIntyre 10/12/2021 **Senior Reviewer/Date:** D. Knaub 10/19/21

YES NO NA COMMENTS

No samples in this SDG required a dilution

X **Case Narrative and COC Completeness Review**

No case narrative is included with Level II data package from Pace

X **Sample Preservation and cooler temperature met (Cool to 6°C)**

5.2°C. OK

X **Holding times met (F –28 days)**

OK

X **QC Blanks Review – Any detections above RL?**

Method Blanks:

p. 39 MB 3398609 = ND
p. 40 MB 3399514 = ND
p. 41 MB 3400148 = ND
p. 42 MB 3402697 = ND

Field/Equipment Blanks:

EB-01 = ND; FB-01 = ND

X **Laboratory Control Sample (LCS) recovery within lab limits (90-110%)**

p. 39 LCS 3398610 = All OK
p. 40 LCS 3399515 = All OK
p. 41 LCS 3400149 = All OK
p. 42 LCS 3402698 = All OK

X **Lab Duplicate - Field Duplicate precision goals met (20%)**

Constituent	PZ-19 (mg/L)	Dup-01 (mg/L)	RPD/Diff & RL
chloride	3.5	3.5	0
fluoride	0.067J	0.065J	0.002 0.1
sulfate	72.7	72.5	0.28

Constituent	PZ-33 (mg/L)	Dup-02 (mg/L)	RPD/Diff & RL
chloride	1.5	1.5	0
fluoride	ND	0.053 J	0.053 0.1
sulfate	40.4	40.6	0.49

In cases where results are less than the RL (lab "J" values), all differences between the parent sample and the duplicate were less than the RL per GP guidance and no flag is necessary other than to indicate the result is less than the RL (J).

X **Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20)**

p. 39 Not samples from this SDG
p. 40 Not samples from this SDG
p. 41 Not samples from this SDG
p. 42 Not samples from this SDG

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

Checked each sample in this SDG, all OK (18 samples total)

Project: Plant Mitchell CCR Semiannual Event 16
Project No: 6122160170.2103.****
Method: TDS by SM2540C
Laboratory and Lot: Pace SDG: 92561680 (Pace – Peachtree Corners, GA)
Reviewer/Date: J. McIntyre 10/12/2021 **Senior Reviewer/Date:** D. Knaub 10/19/21

YES	NO	NA		COMMENTS
X			**Case Narrative and COC Completeness Review** No case narrative is included with Level II data package from Pace.	
X			**Sample Preservation and cooler temperature met (HNO_3 to pH<2; 6°C±2)** 5.2°C. OK	
X			**Holding times met (TDS = 7 days)** OK	
X			**QC Blanks Review – any MB results above RL?** Method Blanks: p. 36 MB 3400861 = ND p. 37 MB 3400865 = ND p. 38 MB 3402584 = ND Field/Equipment Blanks: EB-01 = ND (associated with samples on 9/15/21 only) FB-01 = ND *(associated with all samples)*	
X			**Laboratory Control Sample (LCS) recovery within limits** p. 36 LCS 3400862 TDS = 98% OK p. 37 LCS 3400866 TDS = 100% OK p. 38 LCS 3025333 TDS = 97% OK	
X			**Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)** Constituent / PZ-19 (mg/L) / Dup-01 (mg/L) / RPD/Diff & RL TDS / 450 / 398 / 12.3 Constituent / PZ-33 (mg/L) / Dup-02 (mg/L) / RPD/Diff & RL TDS / 296 / 293 / 1.02 **Lab Duplicates**: p. 36 – not project samples p. 37 – not project samples p. 38 – not project samples	
		X	**Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)** Not applicable to TDS	
X			**EDD Data Verification vs. Hardcopy (10% samples for each SDG)** Checked each sample in this SDG, all OK (18 samples total) *No samples in this SDG required a dilution.*	

Data Evaluation Narrative
Project: Plant Mitchell CCR Groundwater Semiannual Event #16 - Radium
Wood Project Number: 6122160170.2103.**
Site: Ash Ponds 1&2 - Plant Mitchell, Georgia
Matrix: Groundwater

Pace SDG Nos: 92561675

Introduction

A data quality evaluation (DQE) was performed on the radium data reported for the Semiannual Event #16 (September 2021) conducted at Ash Ponds 1 and 2 at Plant Mitchell, located in Albany, Georgia. The samples were collected and analyzed per the protocols presented in the *Draft* Plant Mitchell *Field Sampling Plan* (FSP) (SCS, 2016). The following sections provide summary discussions of the required data qualifications for the analytical methods for samples collected. A Level II DQE validation was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, method blanks, laboratory control samples (LCSs), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), post digestion spikes (PDS), where applicable, laboratory and field duplicate RPDs, field and/or equipment blanks, and reporting limits. Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and laboratory data report agree.

The data were reviewed using the laboratory's precision and accuracy limits, the method requirements, and any requirements listed in the FSP. It should be noted that at the time of this review, a finalized QAPP was not provided. DQE data qualifications were applied, if necessary, using the procedures in USEPA Region IV Data Validation Standard Operating Procedures (USEPA, 2011) and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020), as guidance, and professional judgment using the following qualifiers:

Qualifier	Usable Data
J	The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. *SCS Definition: Value J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce as reliable of a value. Therefore, the value displayed (value J) is qualified by the laboratory as estimated.*
UJ	The analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.
U	Analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. *Note: SCS does not use the "U" flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).*
U*	This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Qualifier	Unusable Data
R	The sample results are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be confirmed and the data are unusable.
UR	The analyte was analyzed for but was not detected above the level of the reported sample reporting or method detection, however the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

The analytical results for the samples reported in this SDG are usable with the qualifications discussed in this narrative. A summary of the data with associated qualifiers is presented in **Table 1**.

Deliverables

The data package as submitted to Wood Environment & Infrastructure Solutions, Inc. (Wood, formerly, Amec Foster Wheeler) is complete to perform a Level II DQE for United States Environmental Protection Agency (USEPA) Methods SW9315 and SW9320.

Sample Integrity

The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for metals, anions, and total dissolved solids (TDS) and reported separately in SDG 92499073. Samples were sent from Pace's Georgia facility to their laboratory in Greenburg, Pennsylvania and analyzed for radium-226, radium-228, and total radium by Methods SW9315 and SW9320.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact and within the temperature range and preservation requirements. Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following groundwater and quality control (QC) samples:

Sample ID	Sample Date	DQE Level	Sample ID	Sample Date	DQE Level
PZ-2D	09/14/21	II	PZ-19	09/16/21	II
PZ-32	09/14/21	II	PZ-17	09/16/21	II
PZ-1D	09/14/21	II	PZ-18	09/16/21	II
PZ-31	09/15/21	II	PZ-33	09/16/21	II
PZ-14	09/15/21	II	**QC Samples**		
PZ-23A	09/15/21	II	EB-1	09/15/21	II
PZ-16	09/15/21	II	FB-1	09/14/21	II
PZ-15	09/15/21	II	DUP-1	09/16/21	II
PZ-25	09/15/21	II	DUP-2	09/16/21	II
PZ-7D	09/16/21	II			

These samples were collected from Ash Ponds 1 and 2 on September 14 through September 16, 2021. Sample DUP-01 is a field duplicate of PZ-19, and DUP-02 is a field duplicate of PZ-33. The field QC blanks include the following; FB-1, a field blank sample, and EB-1, an equipment blank associated with well PZ-2D.

The analytical results for the radium data are usable with the qualifications discussed in this narrative. A summary of the data quality is presented below.

Radium (SW9315/SW9320)

The samples were submitted to Pace for radium-226 (Ra-226), radium-228 (Ra-228), and total radium by Methods SW9315 and SW9320. Total radium was measured by calculation. Each of the Level II components were within QC limits except for method blank contamination, field duplicate precision, and field blank contamination.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

One laboratory method blank contained reportable concentrations of Ra-228 above the MDC.

> *Action: The Ra-228 and/or total radium results for samples PZ-2D and FB-1 were qualified as estimated and flagged "U*".*

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Laboratory Duplicate Precision

No laboratory duplicates were analyzed in this report.

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. Sample DUP-1 is associated with monitoring well PZ-19, and DUP-2 is associated with monitoring well PZ-33. RPDs were evaluated for results greater than 5 times the RL (MDC). Radium was not detected in sample pair PZ-33/DUP-2; therefore precision could not be assessed. Duplicate precision was exceeded for Ra-226 in sample pair PZ-19/DUP-1.

> *Action: No qualification was applied because one or both sample results were less than 5 times the MDC.*

Sampling Accuracy (Equipment Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. The equipment blank sample EB-1 contained Ra-226 and Ra-228 but activity counts were below the MDC indicating that Ra-226 and Ra-228 did not contribute to the results. Field blank sample FB-1 reported Ra-228 and total radium above the MDCs, and associated results less than 5x the blank value are considered non-detect.

Action: No qualification was necessary because Ra-228 and total radium in the FB-1 were qualified as not detected due to method blank contamination.

Carrier and Tracer Yield Recoveries

The carrier and tracer yield recoveries for the samples and QC were not provided

Reporting Limits/Minimum Detectable Concentrations

The RLs (MDCs) were below the screening level of 5 pCi/L for samples submitted for the analysis of radium-226 and radium-228 by Methods SW9315 and SW9320.

Sample results in which the values were reported at concentrations below the MDC were flagged "U" and considered not detected.

Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan. DQE flags were not applied or edited based on professional judgment. The data are usable as qualified.

References

SCS, 2016. *Draft Field Sampling Plan – Plant Mitchell*, Georgia Power Company, Earth Science and Environmental Engineering Technical Services, Southern Company Services, Inc. (SCS), August 17, 2016.

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

USEPA, 2020. *EPA National Functional Guidelines for Inorganic Superfund Methods Data Review*, Final, EPA-542-R-20-006, November 2020.

Prepared by/Date: JPM 11/10/21
Checked By/Date: JAH 11/18/21

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92561675
SAMPLING DATES: September 14 through 16, 2021
Plant Mitchell Ash Ponds 1 and 2

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
FB-1-091421	Field Blank	FB	92561675	SW9320	Radium-228	1.39		U*	BL	pci/l
FB-1-091421	Field Blank	FB	92561675	TRC	Radium	1.58		U*	BL	pci/l
PZ-2D	PZ-2D	N	92561675	SW9320	Radium-228	0.86		U*	BL	pci/l

Notes:
Reason Codes:
BL = Laboratory blank contamination. The result should be considered "not-detected".

Validation Qualifiers:
U* = This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Prepared by/Date: JPM 11/10/21
Checked by/Date: JAH 11/18/21

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 16
Project No: 6122160170.2103.****
Method: Radium-226, Radium-228, Total Radium by EPA 9315 and EPA 9320
Laboratory and Lot: Pace SDG: 92561675 (Pace-Greensburg, PA)
Reviewer/Date: J. McIntyre 11/10/21 **Senior Reviewer/Date:** J. Hartness 11/18/21

YES	NO	NA	COMMENTS
X			**Case Narrative and COC Completeness Review** No case narrative is included with Level II data package from Pace.
X			**Sample Preservation and cooler temperature met (HNO_3 to pH<2)** 5.2, 4.5 °C. OK
X			**Holding times met (180 days)** Collected: 09/14/21 – 09/16/21 Analyzed: Ra-266: 10/07/21, 10/08/21, 10/19/21; Ra-228: 10/06/21 Total Ra: 10/20/21 - OK
	X		**QC Blanks Review (net blank value <MDC)** p. 29 Ra-228 (2252279) = present but <MDC p. 30 Ra-228 (2247079) = 0.625 ± 0.317 (0.544) (samples 92561675001 through 92561675011) ***Flag Ra-228 and/or total Ra "U*" in PZ-2D and FB-1*** p. 31 Ra-226 (2247083) = present but <MDC p. 32 Ra-226 (2251638) = present but <MDC Field/Equipment Blanks: p. 11 FB-1 Ra-228 = 1.39 pCi/L x5 = **6.95 pCi/L** tot. Ra = 1.58 pCi/L x5 = **7.9 pCi/L** *No flags necessary, FB-1 qualified "**U***" due to method blank* p. 15 EB-1 (*assoc. w/ PZ-2D*) – present but <MDC
X			**Laboratory Control Sample (LCS) recovery within lab limits (60-135%)** p. 44 Ra-228: LCS/LCSD 62852= 89.73, 76.36% RPD =16.1% - OK p. 45 Ra-228: LCS/LCSD 62922 = 106.61, 116,98% RPD = 9.28% - OK p. 46 Ra-226: LCS/LCSD 62853 = 99.25, 100.82% RPD = 1.57% - OK p. 47 Ra-226: LCS/LCSD 62912 = 79.43, 95.43% RPD = 18.29% - OK
	X		**Lab Duplicate - Field Duplicate precision goals met (lab limits); lab dup every 10 samples** *(RPD = RER (2σ) <3)*

Constituent	PZ-19 (pCi/L)	DUP-1 (pCi/L)	RPD
Ra-226	0.652	0.346	**61.3**
Ra-228	<MDC	< MDC	NC
tot. radium	1.4	<MDC	NC

No flags – results <5x MDC

Constituent	PZ-33 (pCi/L)	DUP-2 (pCi/L)	RPD
	All ND		

YES	NO	NA		COMMENTS
		X	**Lab Duplicate - Field Duplicate (cont.)** Lab Duplicates: p. 46 Ra-226: 92560765020/DUP RPD = 1.15% - OK p. 47 Ra-226: 92561675014/DUP RPD = 54.06% - no flag results <MDC	
		X	**Matrix Spike recoveries and RPDs within limits (if applicable)** NA - Pace only performs MS/MSD on drinking water samples	
		X	**Carrier/Tracer Yield Recovery Ra-226 (Carrier: Ba);** **Ra-228 (Carrier Ba, Tracer: Y) (30-110%)** Not provided	
X			**EDD Data Verification vs. Hardcopy (10% samples for each SDG)**.	
			Checked each sample in this SDG, all OK (18 samples total)	

FIELD SAMPLING DATA

Low-Flow Test Report:

Test Date / Time: 9/14/2021 3:23:05 PM
Project: Plant Mitchell
Operator Name: Ever Guillen

Location Name: PZ-1D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 51.21 ft** **Total Depth: 61.21 ft** **Initial Depth to Water: 52.43 ft**	**Pump Type: QED BLADDER** **Tubing Type: PE** **Pump Intake From TOC: 56.21 ft** **Estimated Total Volume Pumped: 2000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Sampled at

Weather Conditions:
Hot, some clouds, humid

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/14/2021 3:23 PM	00:00	5.87 pH	30.98 °C	0.00 µS/cm	7.33 mg/L		204.0 mV	52.43 ft	200.00 ml/min
9/14/2021 3:28 PM	05:00	5.89 pH	30.89 °C	0.00 µS/cm	7.33 mg/L		222.0 mV	52.43 ft	200.00 ml/min
9/14/2021 3:33 PM	10:00	7.26 pH	25.58 °C	241.69 µS/cm	2.36 mg/L		-18.9 mV	52.43 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/14/2021 3:35:49 PM
Project: Plant Mitchell (2)
Operator Name: Ever Guillen

Location Name: PZ-1D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 51.21 ft** **Total Depth: 61.21 ft**	**Pump Type: QED BLADDER** **Tubing Type: PE** **Pump Intake From TOC: 56.21 ft** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Sample Time = 1620

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/14/2021 3:35 PM	00:00	7.39 pH	23.90 °C	239.21 µS/cm	3.03 mg/L	24.50 NTU	29.5 mV	53.68 ft	200.00 ml/min
9/14/2021 3:40 PM	05:00	7.41 pH	23.24 °C	234.60 µS/cm	2.94 mg/L	19.40 NTU	52.6 mV	54.35 ft	200.00 ml/min
9/14/2021 3:45 PM	10:00	7.35 pH	23.78 °C	231.60 µS/cm	2.33 mg/L	16.70 NTU	55.5 mV	54.35 ft	200.00 ml/min
9/14/2021 3:50 PM	15:00	7.38 pH	24.41 °C	234.14 µS/cm	2.45 mg/L	11.80 NTU	65.1 mV	54.35 ft	200.00 ml/min
9/14/2021 3:55 PM	20:00	7.42 pH	23.86 °C	236.09 µS/cm	2.53 mg/L	8.51 NTU	55.9 mV	54.35 ft	200.00 ml/min
9/14/2021 4:00 PM	25:00	7.42 pH	24.13 °C	238.41 µS/cm	2.79 mg/L	5.30 NTU	65.9 mV	54.35 ft	200.00 ml/min
9/14/2021 4:05 PM	30:00	7.45 pH	23.72 °C	239.41 µS/cm	2.96 mg/L	2.38 NTU	56.6 mV	54.35 ft	200.00 ml/min
9/14/2021 4:10 PM	35:00	7.45 pH	23.74 °C	240.79 µS/cm	3.14 mg/L	1.95 NTU	66.4 mV	54.35 ft	200.00 ml/min
9/14/2021 4:15 PM	40:00	7.45 pH	24.31 °C	240.75 µS/cm	3.17 mg/L	1.98 NTU	68.1 mV	54.35 ft	200.00 ml/min

Samples

Sample ID:	Description:
PZ-1D	Sampled at 1620

Low-Flow Test Report:

Test Date / Time: 9/14/2021 2:40:52 PM
Project: Plant Mitchell CCR
Operator Name: Daniel Howard

Location Name: PZ-2D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 70.42 ft** **Total Depth: 80.42 ft** **Initial Depth to Water: 35.83 ft**	**Pump Type: QED Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 75.42 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843285**

Test Notes:
PZ-2D sample time 1512.

Weather Conditions:
Hot and humid. Temp 88

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2021 2:40 PM	00:00	8.06 pH	24.27 °C	99.37 µS/cm	1.54 mg/L	10.40 NTU	72.9 mV	35.83 ft	200.00 ml/min
9/14/2021 2:45 PM	05:00	8.57 pH	21.18 °C	104.68 µS/cm	1.37 mg/L	4.89 NTU	64.2 mV	35.96 ft	200.00 ml/min
9/14/2021 2:50 PM	10:00	8.83 pH	20.91 °C	105.70 µS/cm	1.67 mg/L	4.33 NTU	50.7 mV	35.96 ft	200.00 ml/min
9/14/2021 2:55 PM	15:00	8.92 pH	20.75 °C	105.79 µS/cm	1.84 mg/L	3.37 NTU	46.7 mV	35.96 ft	200.00 ml/min
9/14/2021 3:00 PM	20:00	8.94 pH	20.78 °C	106.47 µS/cm	1.95 mg/L	3.31 NTU	45.0 mV	35.96 ft	200.00 ml/min
9/14/2021 3:05 PM	25:00	8.95 pH	20.71 °C	107.12 µS/cm	2.01 mg/L	2.64 NTU	44.5 mV	35.96 ft	200.00 ml/min
9/14/2021 3:10 PM	30:00	8.96 pH	20.65 °C	108.46 µS/cm	2.06 mg/L	2.37 NTU	43.8 mV	35.96 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/16/2021 10:34:02 AM
Project: Plant Mitchell CCR (6)
Operator Name: Daniel Howard

Location Name: PZ-7D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 50.37 ft** **Total Depth: 60.37 ft** **Initial Depth to Water: 34.37 ft**	**Pump Type: QED Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 55.4 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843285**

Test Notes:
PZ-7D sample time 1105. Also collected 2 extra 1L bottles for Radium QC.

Weather Conditions:
Rain off and on. Temp 75.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/16/2021 10:34 AM	00:00	6.97 pH	22.16 °C	546.15 µS/cm	1.64 mg/L	20.80 NTU	24.6 mV	34.37 ft	200.00 ml/min
9/16/2021 10:39 AM	05:00	6.96 pH	21.88 °C	529.55 µS/cm	0.92 mg/L	5.60 NTU	41.2 mV	34.46 ft	200.00 ml/min
9/16/2021 10:44 AM	10:00	6.96 pH	21.85 °C	529.16 µS/cm	0.79 mg/L	3.84 NTU	56.0 mV	34.46 ft	200.00 ml/min
9/16/2021 10:49 AM	15:00	6.96 pH	21.78 °C	526.54 µS/cm	0.69 mg/L	2.62 NTU	48.2 mV	34.46 ft	200.00 ml/min
9/16/2021 10:54 AM	20:00	6.95 pH	21.71 °C	527.80 µS/cm	0.64 mg/L	1.44 NTU	48.7 mV	34.47 ft	200.00 ml/min
9/16/2021 10:59 AM	25:00	6.95 pH	21.67 °C	530.76 µS/cm	0.59 mg/L	1.11 NTU	49.2 mV	34.47 ft	200.00 ml/min
9/16/2021 11:04 AM	30:00	6.96 pH	21.64 °C	529.39 µS/cm	0.56 mg/L	1.52 NTU	49.2 mV	34.47 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/15/2021 12:07:24 PM
Project: Plant Mitchell (4)
Operator Name: Ever Guillen

Location Name: PZ-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 43.2 ft** **Total Depth: 53.2 ft** **Initial Depth to Water: 44.01 ft**	**Pump Type: QED BLADDER** **Tubing Type: PE** **Pump Intake From TOC: 48.2 ft** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Sample Time = 1255

Weather Conditions:
Hot, humid, cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/15/2021 12:07 PM	00:00	7.59 pH	26.76 °C	0.00 µS/cm	8.41 mg/L	19.10 NTU	60.5 mV	44.01 ft	200.00 ml/min
9/15/2021 12:12 PM	05:00	6.99 pH	25.67 °C	440.85 µS/cm	6.59 mg/L	16.30 NTU	113.3 mV	44.01 ft	200.00 ml/min
9/15/2021 12:17 PM	10:00	6.97 pH	25.26 °C	451.07 µS/cm	6.38 mg/L	11.60 NTU	77.8 mV	44.01 ft	200.00 ml/min
9/15/2021 12:22 PM	15:00	6.97 pH	25.40 °C	455.74 µS/cm	6.25 mg/L	9.23 NTU	95.6 mV	44.01 ft	200.00 ml/min
9/15/2021 12:27 PM	20:00	6.96 pH	25.59 °C	459.63 µS/cm	6.07 mg/L	7.31 NTU	75.6 mV	44.01 ft	200.00 ml/min
9/15/2021 12:32 PM	25:00	6.95 pH	25.71 °C	458.45 µS/cm	5.99 mg/L	6.10 NTU	74.5 mV	44.01 ft	200.00 ml/min
9/15/2021 12:37 PM	30:00	6.95 pH	25.49 °C	457.60 µS/cm	5.87 mg/L	5.17 NTU	94.9 mV	44.01 ft	200.00 ml/min
9/15/2021 12:42 PM	35:00	6.95 pH	25.40 °C	456.58 µS/cm	5.73 mg/L	3.96 NTU	75.0 mV	44.01 ft	200.00 ml/min
9/15/2021 12:47 PM	40:00	6.94 pH	25.55 °C	456.65 µS/cm	5.66 mg/L	2.27 NTU	75.2 mV	44.01 ft	200.00 ml/min
9/15/2021 12:52 PM	45:00	6.94 pH	25.42 °C	457.30 µS/cm	5.56 mg/L	1.93 NTU	93.9 mV	44.01 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/15/2021 1:07:47 PM
Project: Plant Mitchell CCR (4)
Operator Name: Daniel Howard

Location Name: PZ-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 72.22 ft** **Total Depth: 83.22 ft** **Initial Depth to Water: 32.58 ft**	**Pump Type: QED Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 78.2 ft** **Estimated Total Volume Pumped: 7550 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843285**

Test Notes:
PZ-15 sample time 1350.

Weather Conditions:
Overcast. Temp 82.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/15/2021 1:07 PM	00:00	7.20 pH	25.72 °C	528.38 µS/cm	3.18 mg/L	11.00 NTU	-106.6 mV	32.58 ft	200.00 ml/min
9/15/2021 1:12 PM	05:00	7.11 pH	24.95 °C	535.74 µS/cm	1.16 mg/L	54.50 NTU	-29.9 mV	32.58 ft	200.00 ml/min
9/15/2021 1:17 PM	10:00	7.10 pH	24.86 °C	531.17 µS/cm	0.80 mg/L	28.90 NTU	-37.0 mV	32.58 ft	200.00 ml/min
9/15/2021 1:22 PM	15:00	7.10 pH	24.81 °C	531.58 µS/cm	0.69 mg/L	17.40 NTU	-21.2 mV	32.58 ft	200.00 ml/min
9/15/2021 1:27 PM	20:00	7.10 pH	24.82 °C	530.07 µS/cm	0.59 mg/L	11.50 NTU	-20.5 mV	32.58 ft	200.00 ml/min
9/15/2021 1:32 PM	25:00	7.10 pH	24.85 °C	529.04 µS/cm	0.53 mg/L	8.75 NTU	-20.6 mV	32.58 ft	200.00 ml/min
9/15/2021 1:35 PM	27:45	7.09 pH	24.86 °C	537.95 µS/cm	0.50 mg/L	5.55 NTU	-19.7 mV	32.58 ft	200.00 ml/min
9/15/2021 1:40 PM	32:45	7.09 pH	24.79 °C	530.26 µS/cm	0.46 mg/L	5.06 NTU	-21.9 mV	32.58 ft	200.00 ml/min
9/15/2021 1:45 PM	37:45	7.09 pH	24.77 °C	526.17 µS/cm	0.44 mg/L	4.62 NTU	-39.4 mV	32.58 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/15/2021 10:27:54 AM
Project: Plant Mitchell CCR (3)
Operator Name: Daniel Howard

Location Name: PZ-16 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 43.19 ft** **Total Depth: 53.19 ft** **Initial Depth to Water: 35.24 ft**	**Pump Type: QED Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 48.2 ft** **Estimated Total Volume Pumped: 5600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843285**

Test Notes:
PZ-16 sample time 1058.

Weather Conditions:
Overcast. Temp 74.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/15/2021 10:27 AM	00:00	7.13 pH	23.37 °C	468.59 µS/cm	2.35 mg/L	3.68 NTU	71.9 mV	35.24 ft	200.00 ml/min
9/15/2021 10:30 AM	03:00	7.13 pH	22.38 °C	462.16 µS/cm	2.08 mg/L	3.68 NTU	95.8 mV	35.34 ft	200.00 ml/min
9/15/2021 10:35 AM	08:00	7.13 pH	22.20 °C	473.31 µS/cm	1.93 mg/L	2.69 NTU	76.3 mV	35.34 ft	200.00 ml/min
9/15/2021 10:40 AM	13:00	7.13 pH	22.16 °C	471.12 µS/cm	1.78 mg/L	2.53 NTU	74.7 mV	35.34 ft	200.00 ml/min
9/15/2021 10:45 AM	18:00	7.12 pH	22.23 °C	463.11 µS/cm	1.71 mg/L	1.38 NTU	73.2 mV	35.34 ft	200.00 ml/min
9/15/2021 10:50 AM	23:00	7.12 pH	22.23 °C	463.85 µS/cm	1.65 mg/L	0.61 NTU	72.9 mV	35.34 ft	200.00 ml/min
9/15/2021 10:55 AM	28:00	7.12 pH	22.20 °C	461.51 µS/cm	1.64 mg/L	0.57 NTU	96.3 mV	35.34 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/16/2021 10:07:12 AM
Project: Plant Mitchell (6)
Operator Name: Ever Guillen

Location Name: PZ-17 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.7 ft** **Total Depth: 62.7 ft** **Initial Depth to Water: 33.97 ft**	**Pump Type: QED BLADDER** **Tubing Type: PE** **Pump Intake From TOC: 57.7 ft** **Estimated Total Volume Pumped: 6703.333 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Sample Time = 1045

Weather Conditions:
Hot, humid,rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/16/2021 10:07 AM	00:00	7.01 pH	23.50 °C	462.05 µS/cm	1.33 mg/L	39.10 NTU	98.4 mV	33.97 ft	200.00 ml/min
9/16/2021 10:08 AM	01:33	7.03 pH	23.10 °C	434.85 µS/cm	1.43 mg/L	24.40 NTU	26.9 mV	34.05 ft	200.00 ml/min
9/16/2021 10:10 AM	03:31	7.02 pH	22.87 °C	475.36 µS/cm	0.70 mg/L	20.60 NTU	-20.4 mV	34.05 ft	200.00 ml/min
9/16/2021 10:15 AM	08:31	7.02 pH	22.78 °C	487.62 µS/cm	0.41 mg/L	16.80 NTU	-19.2 mV	34.05 ft	200.00 ml/min
9/16/2021 10:20 AM	13:31	7.03 pH	22.74 °C	491.43 µS/cm	0.33 mg/L	13.70 NTU	-39.2 mV	34.05 ft	200.00 ml/min
9/16/2021 10:25 AM	18:31	7.03 pH	22.77 °C	493.94 µS/cm	0.28 mg/L	9.25 NTU	-42.4 mV	34.05 ft	200.00 ml/min
9/16/2021 10:30 AM	23:31	7.05 pH	22.76 °C	495.48 µS/cm	0.26 mg/L	6.08 NTU	-26.4 mV	34.05 ft	200.00 ml/min
9/16/2021 10:35 AM	28:31	7.03 pH	22.74 °C	495.57 µS/cm	0.26 mg/L	2.72 NTU	-30.6 mV	34.05 ft	200.00 ml/min
9/16/2021 10:40 AM	33:31	7.03 pH	22.67 °C	495.61 µS/cm	0.26 mg/L		-34.7 mV	34.05 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/16/2021 12:28:40 PM
Project: Plant Mitchell (7)
Operator Name: Ever Guillen

Location Name: PZ-18 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.18 ft** **Total Depth: 63.18 ft** **Initial Depth to Water: 31.03 ft**	**Pump Type: QED BLADDER** **Tubing Type: PE** **Pump Intake From TOC: 58.18 ft** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.16 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Sample Time = 1305

Weather Conditions:
Hot, humid, rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/16/2021 12:28 PM	00:00	7.60 pH	25.94 °C	395.73 µS/cm	7.89 mg/L	22.10 NTU	91.1 mV	31.03 ft	200.00 ml/min
9/16/2021 12:33 PM	05:00	6.88 pH	23.89 °C	574.69 µS/cm	1.31 mg/L	19.80 NTU	-18.7 mV	31.19 ft	200.00 ml/min
9/16/2021 12:38 PM	10:00	6.87 pH	23.42 °C	575.57 µS/cm	0.87 mg/L	16.30 NTU	32.3 mV	31.19 ft	200.00 ml/min
9/16/2021 12:43 PM	15:00	6.86 pH	23.26 °C	575.76 µS/cm	0.51 mg/L	13.10 NTU	40.3 mV	31.19 ft	200.00 ml/min
9/16/2021 12:48 PM	20:00	6.86 pH	23.10 °C	577.01 µS/cm	0.33 mg/L	10.20 NTU	42.6 mV	31.19 ft	200.00 ml/min
9/16/2021 12:53 PM	25:00	6.85 pH	23.03 °C	583.67 µS/cm	0.27 mg/L	7.69 NTU	47.3 mV	31.19 ft	200.00 ml/min
9/16/2021 12:58 PM	30:00	6.85 pH	23.00 °C	577.72 µS/cm	0.25 mg/L	4.86 NTU	48.3 mV	31.19 ft	200.00 ml/min
9/16/2021 1:03 PM	35:00	6.85 pH	22.95 °C	576.47 µS/cm	0.24 mg/L		43.4 mV	31.19 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/16/2021 1:25:49 PM
Project: Plant Mitchell CCR (7)
Operator Name: Daniel Howard

Location Name: PZ-19 **Well Diameter: 2 cm** **Casing Type: PVC** **Screen Length: 10 m** **Top of Screen: 52.63 ft** **Total Depth: 62.63 ft** **Initial Depth to Water: 33.16 ft**	**Pump Type: QED Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 57.63 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843285**

Test Notes:
PZ-19 sample time 1358. Also collected DUP-1 .

Weather Conditions:
Raining. Temp 80.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/16/2021 1:25 PM	00:00	6.84 pH	22.83 °C	704.39 µS/cm	0.99 mg/L	0.86 NTU	31.4 mV	33.16 ft	200.00 ml/min
9/16/2021 1:30 PM	05:00	6.83 pH	22.83 °C	688.44 µS/cm	0.69 mg/L	0.69 NTU	50.0 mV	33.23 ft	200.00 ml/min
9/16/2021 1:35 PM	10:00	6.82 pH	22.88 °C	699.76 µS/cm	0.60 mg/L	0.74 NTU	46.7 mV	33.23 ft	200.00 ml/min
9/16/2021 1:40 PM	15:00	6.81 pH	23.00 °C	703.92 µS/cm	0.55 mg/L	0.37 NTU	47.7 mV	33.23 ft	200.00 ml/min
9/16/2021 1:45 PM	20:00	6.79 pH	23.05 °C	708.83 µS/cm	0.48 mg/L	0.59 NTU	48.3 mV	33.23 ft	200.00 ml/min
9/16/2021 1:50 PM	25:00	6.78 pH	22.96 °C	719.01 µS/cm	0.45 mg/L	0.62 NTU	48.8 mV	33.23 ft	200.00 ml/min
9/16/2021 1:55 PM	30:00	6.77 pH	22.83 °C	722.12 µS/cm	0.41 mg/L		48.4 mV	33.23 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/15/2021 2:32:40 PM
Project: Plant Mitchell (5)
Operator Name: Ever Guillen

Location Name: PZ-23A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.6 ft** **Total Depth: 63.6 ft** **Initial Depth to Water: 50.51 ft**	**Pump Type: QED BLADDER** **Tubing Type: PE** **Pump Intake From TOC: 58.6 ft** **Estimated Total Volume Pumped: 10000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.38 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Sample Time = 1525

Weather Conditions:
Hoy, humid, cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/15/2021 2:32 PM	00:00	7.22 pH	24.67 °C	545.89 µS/cm	8.21 mg/L	38.40 NTU	101.7 mV	50.51 ft	200.00 ml/min
9/15/2021 2:37 PM	05:00	6.75 pH	26.71 °C	669.81 µS/cm	4.19 mg/L	31.30 NTU	82.3 mV	50.83 ft	200.00 ml/min
9/15/2021 2:42 PM	10:00	6.73 pH	26.86 °C	661.39 µS/cm	3.28 mg/L	25.90 NTU	95.4 mV	50.89 ft	200.00 ml/min
9/15/2021 2:47 PM	15:00	6.73 pH	26.76 °C	652.60 µS/cm	3.11 mg/L	20.70 NTU	93.3 mV	50.89 ft	200.00 ml/min
9/15/2021 2:52 PM	20:00	6.73 pH	26.60 °C	651.17 µS/cm	3.04 mg/L	16.40 NTU	92.9 mV	50.89 ft	200.00 ml/min
9/15/2021 2:57 PM	25:00	6.73 pH	26.10 °C	647.36 µS/cm	2.97 mg/L	12.50 NTU	90.5 mV	50.89 ft	200.00 ml/min
9/15/2021 3:02 PM	30:00	6.73 pH	26.40 °C	651.37 µS/cm	2.86 mg/L	9.44 NTU	90.7 mV	50.89 ft	200.00 ml/min
9/15/2021 3:07 PM	35:00	6.74 pH	26.49 °C	650.30 µS/cm	2.79 mg/L	6.29 NTU	90.4 mV	50.89 ft	200.00 ml/min
9/15/2021 3:12 PM	40:00	6.73 pH	26.27 °C	646.74 µS/cm	2.78 mg/L	5.01 NTU	89.9 mV	50.89 ft	200.00 ml/min
9/15/2021 3:17 PM	45:00	6.73 pH	26.44 °C	634.14 µS/cm	2.81 mg/L	3.17 NTU	71.8 mV	50.89 ft	200.00 ml/min
9/15/2021 3:22 PM	50:00	6.72 pH	26.17 °C	632.07 µS/cm	2.80 mg/L	1.79 NTU	87.6 mV	50.89 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/15/2021 3:12:45 PM
Project: Plant Mitchell CCR (5)
Operator Name: Daniel Howard

Location Name: PZ-25 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.19 ft** **Total Depth: 63.19 ft** **Initial Depth to Water: 32.14 ft**	**Pump Type: QED Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 58.2 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843285**

Test Notes:
PZ-25 sample time 1540.

Weather Conditions:
Overcast. Temp 85

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/15/2021 3:12 PM	00:00	7.09 pH	24.71 °C	435.90 µS/cm	2.10 mg/L	2.56 NTU	-50.0 mV	32.14 ft	200.00 ml/min
9/15/2021 3:17 PM	05:00	7.05 pH	23.53 °C	439.58 µS/cm	0.42 mg/L	7.44 NTU	-70.3 mV	32.25 ft	200.00 ml/min
9/15/2021 3:22 PM	10:00	7.05 pH	23.28 °C	439.07 µS/cm	0.35 mg/L	5.13 NTU	-53.9 mV	32.25 ft	200.00 ml/min
9/15/2021 3:27 PM	15:00	7.05 pH	23.17 °C	438.75 µS/cm	0.29 mg/L	2.87 NTU	-56.3 mV	32.25 ft	200.00 ml/min
9/15/2021 3:32 PM	20:00	7.05 pH	23.12 °C	438.96 µS/cm	0.31 mg/L	1.62 NTU	-57.8 mV	32.25 ft	200.00 ml/min
9/15/2021 3:37 PM	25:00	7.05 pH	23.06 °C	439.05 µS/cm	0.29 mg/L	0.78 NTU	-58.5 mV	32.25 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/15/2021 9:41:29 AM
Project: Plant Mitchell (3)
Operator Name: Ever Guillen

Location Name: PZ-31 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 51.6 ft** **Total Depth: 61.6 ft**	**Pump Type: QED BLADDER** **Tubing Type: PE** **Pump Intake From TOC: 56.21 ft** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Sample Time = 1020

Weather Conditions:
Hot, humid, cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/15/2021 9:41 AM	00:00	6.97 pH	23.05 °C	407.69 µS/cm	5.17 mg/L	25.80 NTU	99.0 mV	39.09 ft	200.00 ml/min
9/15/2021 9:46 AM	05:00	6.98 pH	22.65 °C	414.31 µS/cm	5.19 mg/L	19.10 NTU	105.1 mV	39.41 ft	200.00 ml/min
9/15/2021 9:51 AM	10:00	6.98 pH	22.60 °C	413.73 µS/cm	5.18 mg/L	15.30 NTU	76.9 mV	39.41 ft	200.00 ml/min
9/15/2021 9:56 AM	15:00	6.98 pH	22.54 °C	413.11 µS/cm	5.15 mg/L	12.10 NTU	93.1 mV	39.41 ft	200.00 ml/min
9/15/2021 10:01 AM	20:00	6.99 pH	22.56 °C	412.69 µS/cm	5.16 mg/L	9.29 NTU	73.4 mV	39.41 ft	200.00 ml/min
9/15/2021 10:06 AM	25:00	6.99 pH	22.78 °C	414.29 µS/cm	5.11 mg/L	6.93 NTU	90.6 mV	39.41 ft	200.00 ml/min
9/15/2021 10:11 AM	30:00	6.99 pH	22.56 °C	411.09 µS/cm	5.12 mg/L	5.37 NTU	72.4 mV	39.41 ft	200.00 ml/min
9/15/2021 10:16 AM	35:00	6.99 pH	22.60 °C	411.28 µS/cm	5.14 mg/L	2.69 NTU	91.0 mV	39.41 ft	200.00 ml/min
9/15/2021 10:21 AM	40:00	7.01 pH	22.63 °C	414.48 µS/cm	5.15 mg/L		71.7 mV	39.41 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/14/2021 4:15:54 PM
Project: Plant Mitchell CCR (2)
Operator Name: Daniel Howard

Location Name: PZ-32 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 55.3 ft** **Total Depth: 65.3 ft** **Initial Depth to Water: 37.95 ft**	**Pump Type: QED Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 60.3 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843285**

Test Notes:
PZ-32 sample time 1642.

Weather Conditions:
Hot and humid. Temp 90

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2021 4:15 PM	00:00	7.34 pH	21.98 °C	299.59 µS/cm	1.09 mg/L	6.66 NTU	21.0 mV	37.95 ft	200.00 ml/min
9/14/2021 4:20 PM	05:00	7.30 pH	20.92 °C	302.27 µS/cm	0.92 mg/L	5.81 NTU	49.6 mV	38.01 ft	200.00 ml/min
9/14/2021 4:25 PM	10:00	7.30 pH	20.74 °C	303.03 µS/cm	0.63 mg/L	2.18 NTU	63.9 mV	38.01 ft	200.00 ml/min
9/14/2021 4:30 PM	15:00	7.31 pH	20.78 °C	299.45 µS/cm	0.56 mg/L	0.76 NTU	52.0 mV	38.01 ft	200.00 ml/min
9/14/2021 4:35 PM	20:00	7.31 pH	20.75 °C	297.44 µS/cm	0.55 mg/L	0.66 NTU	51.8 mV	38.01 ft	200.00 ml/min
9/14/2021 4:40 PM	25:00	7.31 pH	20.74 °C	298.93 µS/cm	0.54 mg/L	0.35 NTU	52.0 mV	38.01 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/16/2021 3:40:54 PM
Project: Plant Mitchell (8)
Operator Name: Ever Guillen

Location Name: PZ-33 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 63.6 ft** **Total Depth: 73.6 ft** **Initial Depth to Water: 49.92 ft**	**Pump Type: QED BLADDER** **Tubing Type: PE** **Pump Intake From TOC: 68.6 ft** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.26 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Sample Time = 1630

Weather Conditions:
Hot, humid, rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/16/2021 3:40 PM	00:00	7.67 pH	26.75 °C	363.21 µS/cm	8.16 mg/L	18.50 NTU	100.9 mV	49.92 ft	200.00 ml/min
9/16/2021 3:45 PM	05:00	7.23 pH	27.50 °C	432.18 µS/cm	4.26 mg/L	15.30 NTU	-87.5 mV	50.18 ft	200.00 ml/min
9/16/2021 3:50 PM	10:00	7.13 pH	27.00 °C	433.52 µS/cm	1.93 mg/L	12.20 NTU	-57.5 mV	50.18 ft	200.00 ml/min
9/16/2021 3:55 PM	15:00	7.11 pH	26.40 °C	427.54 µS/cm	1.23 mg/L	9.57 NTU	-19.6 mV	50.18 ft	200.00 ml/min
9/16/2021 4:00 PM	20:00	7.11 pH	26.06 °C	428.92 µS/cm	1.02 mg/L	6.63 NTU	3.1 mV	50.18 ft	200.00 ml/min
9/16/2021 4:05 PM	25:00	7.10 pH	26.43 °C	431.84 µS/cm	0.89 mg/L	4.31 NTU	26.6 mV	50.18 ft	200.00 ml/min
9/16/2021 4:10 PM	30:00	7.10 pH	25.62 °C	425.37 µS/cm	0.59 mg/L	2.41 NTU	34.7 mV	50.18 ft	200.00 ml/min
9/16/2021 4:15 PM	35:00	7.10 pH	24.67 °C	427.08 µS/cm	0.49 mg/L	1.60 NTU	37.4 mV	50.18 ft	200.00 ml/min
9/16/2021 4:20 PM	40:00	7.10 pH	24.04 °C	425.83 µS/cm	0.37 mg/L	1.60 NTU	41.6 mV	50.18 ft	200.00 ml/min
9/16/2021 4:25 PM	45:00	7.10 pH	23.76 °C	426.04 µS/cm	0.32 mg/L	1.43 NTU	42.5 mV	50.18 ft	200.00 ml/min

Samples

Sample ID:	Description:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: _X_ 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: ~~Field Blank #1~~ FB-1 MATRIX: Groundwater

WELL MATERIAL: __ PVC __ SS __ OTHER

SAMPLE METHOD: Direct Pour

DUP./REP. OF: —

WELL DIAMETER: —

DEPTH TO WATER: —

GRAB (x) COMPOSITE ( )

TOTAL DEPTH: —

Pump Intake Set at (btoc): —

or

WATER COLUMN HEIGHT: —

Tubing Inlet Set at (btoc): —

PURGE VOLUME: —

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial:								( )	

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity < 5 NTUs Deionized Type I Water (ASTM D5196)

No Lot #

SAMPLE DATE: ~~13~~ 9/14/21

SAMPLE TIME: 1405

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS	pH check
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A	<2
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions	
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS	
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined	<2

GENERAL INFORMATION		
WEATHER:	Hot & Humid, Temp 88°F	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER: Daniel Howard		OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: X 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: EB-1 MATRIX: Groundwater

WELL MATERIAL: PVC __ SS __ OTHER

SAMPLE METHOD: Gravity Feed through Tubing

DUP./REP. OF: ~

WELL DIAMETER: ~
DEPTH TO WATER: ~
TOTAL DEPTH: ~
WATER COLUMN HEIGHT: ~
PURGE VOLUME: ~

GRAB (x) COMPOSITE ( )

Pump Intake Set at (btoc): ~
or
Tubing Inlet Set at (btoc): ~

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial:								( )	

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity < 5 NTUs Tubing use to connect to bladder pump installed in wells

Use ASTM Type I Deionized water (ASTM D5196) Tubing Lot # 130146

SAMPLE DATE: 9/15/21
SAMPLE TIME: 0910

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined

pH Check <2

<2

GENERAL INFORMATION		
WEATHER:	Overcast	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER:	Daniel Howard	OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: _X_ 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: PZ-1D MATRIX: Groundwater

WELL MATERIAL: _✓_ PVC __ SS __ OTHER

SAMPLE METHOD: Low Flow - QED

DUP./REP. OF:_____

Pump Intake Set at (btoc): 56.21

or

Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2"

DEPTH TO WATER: 52.43 GRAB (x) COMPOSITE ( )

TOTAL DEPTH: ~~56.40~~ 61.21

WATER COLUMN HEIGHT: 8.78 x 0.17 = 1.49 x 3 = 4.48

PURGE VOLUME: 4.48

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1520	0.1	7.38	204.0	5.87	0.0	30.98		200	52.43
1525	0.25	7.53	27.0	5.80					
1535	0.25	3.03	29.5	7.39	239.21	23.90	24.5	200	53.68
1540	0.5	2.94	52.6	7.41	234.60	23.24	19.4	200	54.35
1545 10	0.75	2.33	55.5	7.35	231.60	23.78	16.7	200	54.35
1550 15	1.0	2.45	65.1	7.38	234.14	24.41	11.8	200	54.35
1555 20	1.25	2.53	55.9	7.42	236.09	23.86	8.51	200	54.35
1600 25	1.5	2.79	65.9	7.42	238.41	24.13	5.30	200	54.35
1605 30	1.75	2.96	56.6	7.45	239.41	23.72	2.38	200	54.35
1610 35	2.0	3.14	66.4	7.45	240.79	23.74	1.95	200	54.35
1615 40	2.25	3.17	68.1	7.45	240.75	24.31	1.89	200	54.35
1620	Collect	Sample							

NOTES:	
	[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.
	If well is purged dry, allow to recharge and sample within 24 hrs.
	Turbidity < 5 NTUs
	Pump Stopped - Restarted Test after Troubleshooting -

SAMPLE DATE: 9-14-21

SAMPLE TIME: 1620

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS	
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A	pH Check < 2
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions	
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS	
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined	< 2

GENERAL INFORMATION		
WEATHER:	Hot - Humid - Some Clouds	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER: EREK GULLEN		OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: X 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: PZ-2D MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: QED Bladder Pump

DUP./REP. OF:_____

Pump Intake Set at (btoc): 75.42

or

Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2

DEPTH TO WATER: 35.83

TOTAL DEPTH: 80.42

WATER COLUMN HEIGHT:_____

PURGE VOLUME:_____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

GRAB (x) COMPOSITE ( )

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1440	0	1.54	72.9	8.06	99.37	24.27	10.4	200 ( )	35.83
1445	0.25	1.37	64.2	8.57	104.68	21.18	4.89	200	35.96
1450	0.5	1.67	50.7	8.83	105.70	20.91	4.33	200	35.96
1455	0.75	1.84	46.7	8.92	105.79	20.75	3.37	200	35.96
1500	1.0	1.95	45.0	8.94	106.47	20.78	3.31	200	35.96
1505	1.25	2.01	44.5	8.95	107.12	20.71	2.64	200	35.96
1510	1.50	2.06	43.8	8.96	108.46	20.65	2.37	200	35.96

NOTES:	
	[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.
	If well is purged dry, allow to recharge and sample within 24 hrs.
	Turbidity < 5 NTUs

SAMPLE DATE: 9/14/21

SAMPLE TIME: 1512

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS	pH check
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A	<2
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions	
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS	
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined	<2

GENERAL INFORMATION		
WEATHER:	Hot + Humid, Temp 88°F	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER: Daniel Howard		OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: X 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: PZ-7D MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: QED Bladder pump

DUP./REP. OF:_____

Pump Intake Set at (btoc): 55.4
or
Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2
DEPTH TO WATER: 34.37
TOTAL DEPTH: 60.37
WATER COLUMN HEIGHT:_____
PURGE VOLUME:_____
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

GRAB (x) COMPOSITE ( )

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1033	0	1.64	24.6	6.97	546.15	22.16	20.8	200 ( )	34.37
1038	0.25	0.92	41.2	6.96	529.55	21.88	5.6	200	34.46
1043	0.5	0.79	56.0	6.96	529.16	21.85	3.84	200	34.46
1048	0.75	0.69	48.2	6.96	526.54	21.78	2.62	200	34.46
1053	1.0	0.64	48.7	6.95	527.80	21.71	1.44	200	34.47
1058	1.25	0.59	49.2	6.95	530.76	21.67	1.11	200	34.47
1103	1.5	0.56	49.2	6.96	529.39	21.64	1.52	200	34.47

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

NOTES:

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity < 5 NTUs Also collected Lab QC for Radium 2 additional 1L bottles

SAMPLE DATE: 9/16/21
SAMPLE TIME: 1105

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS	pH Check
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A	<2
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions	
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS	
1 L/Poly	24	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined	<2

GENERAL INFORMATION		
WEATHER:	Overcast + raining off + on, Temp 75°F	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER: Daniel Howard		OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: _X_ 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: PZ-14 MATRIX: Groundwater

WELL MATERIAL: ~~PVC~~ __ SS __ OTHER

SAMPLE METHOD: Low Flow (QED)

DUP./REP. OF:_____

Pump Intake Set at (btoc): 48.20
or
Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2"
DEPTH TO WATER: 44.01 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 53.20
WATER COLUMN HEIGHT: 9.19 X 0.17 = 1.56 X 3 = 4.69
PURGE VOLUME: 4.69
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1207 0.0	0.1	3.41	60.5	6.99	0.0	26.76	19.1	200 ( )	44.01
1212 5.0	0.25	6.59	113.3	7.59	440.85	25.67	16.3	200	44.22
1217 10.0	0.5	6.38	77.8	6.97	451.07	25.26	11.6	200	44.22
1222 15.0	0.75	6.25	95.6	6.97	455.74	25.40	9.23	200	44.22
1227 20.0	1.0	6.07	75.6	6.96	459.63	25.59	7.31	200	44.22
1232 25.0	1.25	5.99	74.5	6.95	458.45	25.71	6.10	200	44.22
1237 30.0	1.50	5.87	94.9	6.95	457.60	25.49	5.17	200	44.22
1242 35.0	1.75	5.73	75.0	6.95	456.58	25.40	3.96	200	44.22
1247 40.0	2.0	5.66	75.2	6.94	456.65	25.55	2.27	200	44.22
1252 45.0	2.25	5.56	93.9	6.94	457.30	25.42	1.93	200	44.22
1255 Collect		Sample							

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity < 5 NTUs

SAMPLE DATE: 9-15-21
SAMPLE TIME: 1255

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS	pH Check
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A	<2
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions	
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS	
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined	<2

GENERAL INFORMATION		
WEATHER:	HOT - HUMID - CLOUDY	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER: EVER GUILLEN		OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: X 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: PZ-15 MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: QED Bladder pump

DUP./REP. OF:_____

Pump Intake Set at (btoc): 78.2

or

Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2

DEPTH TO WATER: 32.58

TOTAL DEPTH: 83.22

WATER COLUMN HEIGHT:_____

PURGE VOLUME:_____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

GRAB (x) COMPOSITE ( )

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1307	0	3.18	-106.6	7.20	528.38	25.72	11.0	200 ( )	32.58
1312	0.25	1.16	-29.9	7.11	535.74	24.95	54.5	200	32.78
1317	0.5	0.80	-37.0	7.10	531.17	24.86	28.9	200	32.78
1322	0.75	0.69	-21.2	7.10	531.58	24.81	17.4	200	32.78
1327	1.0	0.59	-20.5	7.10	530.07	24.82	11.5	200	32.78
1332	1.25	0.53	-20.6	7.10	529.04	24.85	8.75	200	32.78
1337	1.5	0.50	-19.7	7.09	537.95	24.86	5.55	200	32.78
1342	1.75	0.46	-21.9	7.09	530.26	24.79	5.06	200	32.79
1347	2.0	0.44	-39.4	7.09	526.17	24.77	4.62	200	32.79

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity < 5 NTUs

SAMPLE DATE: 9/15/21

SAMPLE TIME: 1350

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS	
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A	pH Check <2
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions	
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS	
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined	<2

GENERAL INFORMATION		
WEATHER:	Overcast, Temp 52°F	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER: Daniel Howard		OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: _X_ 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: PZ-16 MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: QED Bladder pump

DUP./REP. OF:_____

Pump Intake Set at (btoc): 48.2
or
Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2
DEPTH TO WATER: 35.24
TOTAL DEPTH: 53.19
WATER COLUMN HEIGHT:_____
PURGE VOLUME:_____
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

GRAB (x) COMPOSITE ( )

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1027	0	2.35	~~95.8~~ 95.5	7.13	468.59	23.37	3.68	~~95.5~~ pH (200)	35.24
1030	0.15	2.08	95.8	7.13	462.16	22.38	3.68	200	35.34
1035	0.25	1.93	76.3	7.13	473.31	22.20	2.69	200	35.34
1040	0.75	1.78	74.7	7.13	471.12	22.16	2.53	200	35.34
1045	1.0	1.71	73.2	7.12	463.11	22.23	1.38	200	35.34
1050	1.25	1.65	72.9	7.12	463.85	22.23	0.61	200	35.34
1055	1.50	1.64	96.3	7.12	461.51	22.20	0.57	200	35.34

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity < 5 NTUs Also collect 2-1L Bottle For Lab Radium QC

SAMPLE DATE: 9/15/21
SAMPLE TIME: 1058

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS	
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A	pH check R2
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions	
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS	
1 L/Poly	2 4	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined	<2

GENERAL INFORMATION		
WEATHER:	Overcast, Temp 74°F	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER: Daniel Howard		OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: X 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: PZ-17 MATRIX: Groundwater

WELL MATERIAL: ~~X~~ PVC __ SS __ OTHER

SAMPLE METHOD: Low Flow (QED)

DUP./REP. OF:_____

Pump Intake Set at (btoc): 57.70
or
Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2"
DEPTH TO WATER: 33.97 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 62.70
WATER COLUMN HEIGHT: 28.73 X 0.17 = 4.88 X 3 = 14.65
PURGE VOLUME: 14.65
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1007 0.0	0.1	1.33	98.4	7.01	462.05	23.50	39.1	200 ( )	33.97
1009 1:33	0.19	1.43	26.9	7.03	434.05	23.10	24.4	200	34.05
1012 3:31	0.3	0.70	-20.4	7.02	475.36	22.87	20.6	200	34.05
1015 8 31	0.45	0.41	-19.2	7.02	487.62	22.78	16.8	200	34.05
1020 13 31	0.80	0.33	-39.2	7.03	491.43	22.74	13.7	200	34.05
1025 18 31	0.90	0.28	-42.4	7.03	493.94	22.77	9.25	200	34.05
1030 23:31	1.16	0.26	-26.4	7.05	495.48	22.76	6.08	200	34.05
1035 28:31	1.40	0.26	-30.6	7.03	495.57	22.74	2.72	200	34.05
1040 33:31	1.67	0.26	-34.7	7.03	495.61	22.67	1.39	200	34.05
1045	Collect Sample								

NOTES:	
	[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.
	If well is purged dry, allow to recharge and sample within 24 hrs.
	Turbidity < 5 NTUs

SAMPLE DATE: 9-16-21
SAMPLE TIME: 1045

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS	pH check
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A	<2
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions	
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS	
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined	<2

GENERAL INFORMATION		
WEATHER:	HOT - HUMID - RAIN	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER:	EVER GUILLEN	OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: _X_ 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: PZ-18 MATRIX: Groundwater

WELL MATERIAL: ✓ PVC __ SS __ OTHER

SAMPLE METHOD: Low Flow (QED)

DUP./REP. OF:_____

Pump Intake Set at (btoc): 58.18

or

Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2"

DEPTH TO WATER: 31.03 GRAB (x) COMPOSITE ( )

TOTAL DEPTH: 63.18

WATER COLUMN HEIGHT: 32.15 X 0.17 = 5.47 X 3 = 16.40

PURGE VOLUME: 16.40

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1228	0.1	7.89	91.1	7.60	395.73	25.94	22.1	200 ( )	31.03
1233 5.0	0.125	1.31	-18.7	6.88	574.69	23.89	19.8	200	31.19
1238 10	0.5	0.87	32.3	6.87	575.57	23.42	16.3	200	31.19
1243 15	0.75	0.51	40.3	6.86	575.76	23.26	13.1	200	31.19
1248 20	1.0	0.33	42.6	6.86	577.01	23.10	10.2	200	31.19
1253 25	1.25	0.27	47.3	6.85	583.67	23.03	7.69	200	31.19
1258 30	1.5	0.25	48.3	6.85	577.72	23.00	4.86	200	31.19
1303 35	1.75	0.24	43.4	6.85	576.47	22.95	1.27	200	31.19
1305	Collect Sample								

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity < 5 NTUs

SAMPLE DATE: 9-16-21

SAMPLE TIME: 1305

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined

pH check < 2

< 2

GENERAL INFORMATION		
WEATHER:	HOT - HUMID - RAIN	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER:	EVER GUILLEN	OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: X 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: PZ-19 MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: QED Bladder pump

DUP./REP. OF: DUP-1

WELL DIAMETER: 2

DEPTH TO WATER: 33.16

TOTAL DEPTH: 62.63

GRAB (x) COMPOSITE ( )

Pump Intake Set at (btoc): 57.63

or

Tubing Inlet Set at (btoc):_____

WATER COLUMN HEIGHT:_____

PURGE VOLUME:_____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1325	0	0.99	31.4	6.84	704.39	22.83	0.86	200 ( )	33.16
1330	0.25	0.69	50.0	6.83	688.44	22.83	0.69	200	33.23
1335	0.5	0.60	46.7	6.82	699.76	22.83	0.74	200	33.23
1340	0.75	0.55	47.7	6.81	703.92	23.00	0.37	200	33.23
1345	1.0	0.48	48.3	6.79	708.83	23.05	0.59	200	33.23
1350	1.25	0.45	48.8	6.78	719.01	22.96	0.62	200	33.23
1355	1.5	0.41	48.4	6.77	722.12	22.83	0.44	200	33.23

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity < 5 NTUs

SAMPLE DATE: 9/16/2

SAMPLE TIME: 1353

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS	pH Check
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A	<2
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions	
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS	
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined	<2

GENERAL INFORMATION		
WEATHER:	Raining Temp 80°F	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER: Daniel Howard		OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: _X_ 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: ~~Duplicate #1~~ DUP-1 MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: QED Bladder pump

DUP./REP. OF: PZ-19

Pump Intake Set at (btoc): 57.63
or
Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2
DEPTH TO WATER: 33.16
TOTAL DEPTH: 62.63
WATER COLUMN HEIGHT:_____
PURGE VOLUME:_____
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

GRAB (x) COMPOSITE ( )

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial:	See PZ-19 For reading							( )	

NOTES:
[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.
If well is purged dry, allow to recharge and sample within 24 hrs.
Turbidity < 5 NTUs DUP-1 of PZ-19

SAMPLE DATE: 9/16/21
SAMPLE TIME:_____

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS	pH check
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A	<2
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions	
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS	
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined	<2

GENERAL INFORMATION		
WEATHER:	Raining, Temp 80°F	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER:	Daniel Howard	OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: _X_ 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: PZ-23A MATRIX: Groundwater

WELL MATERIAL: _✓_ PVC __ SS __ OTHER

SAMPLE METHOD: Low Flow (QED)

DUP./REP. OF:_____

Pump Intake Set at (btoc): 58.60

or

Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2"

DEPTH TO WATER: 50.51 GRAB (x) COMPOSITE ( )

TOTAL DEPTH: 63.60

WATER COLUMN HEIGHT: 13.09 X .17 = 2.23 X 3 = 6.68

PURGE VOLUME: 6.68

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1432 0	0.1	8.21	101.7	7.22	545.89	24.67	38.40	200 ( )	50.51
1437 5.0	0.25	4.19	82.3	6.75	669.81	26.71	31.3	200	50.83
1442 10.0	0.5	3.28	95.4	6.73	661.39	26.86	25.9	200	50.89
1447 15.0	0.75	3.11	93.3	6.73	652.60	26.76	20.7	200	5089
1452 20	1.0	3.04	92.9	6.73	651.17	26.60	16.4	200	5089
1457 25	1.25	2.97	90.5	6.73	647.36	26.10	12.5	200	50.89
1502 30	1.50	2.86	90.7	6.73	651.37	26.40	9.44	200	50.89
1507 35	1.75	2.79	90.4	6.74	650.30	26.49	6.29	200	50.89
1512 40	2.0	2.78	89.9	6.73	646.74	26.27	5.01	200	50.89
1517 45	2.25	2.81	71.8	6.73	634.14	26.44	3.17	200	50.89
1522 50	2.50	2.80	87.6	6.72	632.07	26.17	1.79	200	50.89
1525 Collect	Sample								

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity < 5 NTUs

SAMPLE DATE: 9-15-21

SAMPLE TIME: 1525

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS	pH Check
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A	<2
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions	
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS	
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined	<2

GENERAL INFORMATION		
WEATHER:	Hot - Humid - Cloudy	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER: Ever Guillen		OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: X 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: PZ-25 MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: QED Bladder pump

DUP./REP. OF:_____

WELL DIAMETER: 2

DEPTH TO WATER: 32.14

TOTAL DEPTH: 63.19

GRAB (x) COMPOSITE ( )

Pump Intake Set at (btoc): 58.2

or

Tubing Inlet Set at (btoc):_____

WATER COLUMN HEIGHT:_____

PURGE VOLUME:_____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1512	0	2.10	-50.0	7.09	435.90	24.71	2.56	200 ( )	32.14
1517	0.25	0.42	-70.3	7.05	439.58	23.53	7.44	200	32.25
1522	0.5	0.35	-53.9	7.05	439.07	23.28	5.13	200	32.25
1527	0.75	0.29	-56.3	7.05	438.75	23.17	2.87	200	32.25
1532	1.0	0.31	-57.8	7.05	438.96	23.12	1.62	200	32.25
1537	1.25	0.29	-58.5	7.05	439.05	23.06	0.78	200	32.25

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity < 5 NTUs

SAMPLE DATE: 9/15/21

SAMPLE TIME: 1540

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS	pH Check
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A	<2
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions	
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS	
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined	<2

GENERAL INFORMATION		
WEATHER:	Overcast, Temp 85°F	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER: Daniel Howard		OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: X 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: PZ-31 MATRIX: Groundwater

WELL MATERIAL: ✓PVC __ SS __ OTHER

SAMPLE METHOD: Low Flow (QED)

DUP./REP. OF:_____

Pump Intake Set at (btoc): 56.60

or

Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2

DEPTH TO WATER: 39.09 GRAB (x) COMPOSITE ( )

TOTAL DEPTH: 61.60

WATER COLUMN HEIGHT: 22.51 X .17 = 3.83 X 3 = 11.48

PURGE VOLUME: 11.48

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 9410.0	0.1	5.17	99.0	6.97	407.69	23.05	25.8	200 ( )	39.09
946 5.0	0.25	5.19	105.1	6.98	414.31	22.65	19.1	200	3941
951 10.0	0.5	5.18	76.9	6.98	413.73	22.60	15.3	200	39.41
956 15.0	0.75	5.15	93.1	6.98	413.11	22.54	12.1	200	39.41
1001 20.0	1.0	5.16	73.4	6.99	412.69	22.56	9.29	200	39.41
1006 25.0	1.25	5.11	90.6	6.99	414.29	22.78	6.93	200	39.41
1011 30.0	1.5	5.12	72.4	6.99	411.09	22.56	5.37	200	39.41
1016 35.0	1.75	5.14	91.0	6.99	411.28	22.60	2.69	200	39.41
1020	Collect Sample								

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity < 5 NTUs

SAMPLE DATE: 9-15-21

SAMPLE TIME: 1020

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS	pH check
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A	<2
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions	
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS	
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined	<2

GENERAL INFORMATION		
WEATHER:	HOT, HUMID, CLOUDY	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER:	EVER GUILLEN	OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: X 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: PZ-32 MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: QED Bladder pump

DUP./REP. OF:_____

Pump Intake Set at (btoc): 60.30

or

Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2

DEPTH TO WATER: 37.95

TOTAL DEPTH: 65.30

WATER COLUMN HEIGHT:_____

PURGE VOLUME:_____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

GRAB (x) COMPOSITE ( )

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1615	0	1.09	21.0	7.34	299.59	21.98	6.66	200( )	~~38.01~~ 37.95
1620	0.25	0.92	49.6	7.30	302.27	20.92	5.81	200	38.01
1625	0.5	0.63	63.9	7.30	303.03	20.74	2.18	200	38.01
1630	0.75	0.56	52.0	7.31	299.45	20.78	0.76	200	38.01
1635	1.0	0.55	51.8	7.31	297.44	20.75	0.66	200	38.01
1640	1.25	0.54	52.0	7.31	298.93	20.74	0.35	200	38.01

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity < 5 NTUs

SAMPLE DATE: 9/14/21

SAMPLE TIME: 1642

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS	pH check
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A	< 2
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions	
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS	
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined	< 2

GENERAL INFORMATION		
WEATHER:	Hot + Humid, Temp 90°F	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER: Daniel Howard		OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: _X_ 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: PZ-33 MATRIX: Groundwater

WELL MATERIAL: ✓ PVC __ SS __ OTHER

SAMPLE METHOD: Low Flow (QED)

DUP./REP. OF: DUP-2

WELL DIAMETER: 2"

DEPTH TO WATER: 49.92 GRAB (x) COMPOSITE ( )

TOTAL DEPTH: 73.60

Pump Intake Set at (btoc): 68.60

or

Tubing Inlet Set at (btoc):_____

WATER COLUMN HEIGHT: 23.68 X 0.17 = 4.03 X 3 = 12.08

PURGE VOLUME: 12.08

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1541 0.0	0.1	8.16	100.9	7.67	363.21	26.75	18.5	200 ( )	49.92
1546 5.0	0.25	4.26	-87.5	7.23	432.18	27.50	15.13	200	50.18
1551 10.0	0.5	1.93	-57.5	7.13	433.52	27.00	12.2	200	50.18
1556 15.0	0.75	1.23	-19.6	7.11	427.54	26.40	9.57	200	50.18
1601 20.0	1.0	1.02	3.1	7.11	428.92	26.06	6.63	200	50.18
1606 25	1.25	0.89	26.6	7.10	431.84	26.43	4.31	200	50.18
1611 30	1.5	0.59	34.7	7.10	425.37	25.62	2.41	200	50.18
1616 35	1.75	0.49	37.4	7.10	427.08	24.67	1.94	200	50.18
1621 40	2.0	0.37	41.6	7.10	425.83	24.04	1.60	200	50.18
1626 45	2.25	0.32	42.5	7.10	426.04	23.76	1.43	200	50.18
1630 Collect Sample									

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity < 5 NTUs

SAMPLE DATE: 9-16-21

SAMPLE TIME: 1630

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS	pH Check
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A	< 2
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions	
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS	
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined	< 2

GENERAL INFORMATION		
WEATHER:	HOT-HUMID-RAIN	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER: EVER GUILLEN		OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.1902

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: X 2021 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: ~~Duplicate #2~~ DUP-2 MATRIX: Groundwater

WELL MATERIAL: __ PVC __ SS __ OTHER

SAMPLE METHOD:_____

DUP./REP. OF: PZ-33

Pump Intake Set at (btoc): 68.60
or
Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2"
DEPTH TO WATER: 49.92
TOTAL DEPTH: 73.60
WATER COLUMN HEIGHT:_____
PURGE VOLUME:_____
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

GRAB (x) COMPOSITE ( )

TIME	VOL. PURGED (gal)	DO (±0.2 mg/L or 10% for DO > 0.5 mg/L/ for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [<5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial:								( )	

NOTES:
[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.
If well is purged dry, allow to recharge and sample within 24 hrs.
Turbidity < 5 NTUs

SAMPLE DATE: 9-16-21
SAMPLE TIME:_____

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals, SW6020B/SW7470A
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	E9315/9320	Radium 226 & 228 Combined

pH Check
2
2

GENERAL INFORMATION		
WEATHER:	HOT-HUMID-RAIN	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Betsy McDaniel: betsy.mcdaniel@pacelabs.com	
SAMPLER:	EVER GUILLEN	OBSERVER:

App. III Metals - Boron, Calcium; App. IV Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium

App. III Anions - Chloride, Fluoride, Sulfate

CALIBRATION DATA

Date: 9-14-21
Time: 1300
Prepared By: EVER GUILLEN
Checked By: _____

Wood.
Project No. 6122160170

Pine Sonde ID: 850762
Pine Handset ID: 850966
Battery Voltage %: 100

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		**VALUE**
Was DO membrane changed?	Yes_____ No ✓ Date:_____ Time:_____	
Current Air Temperature °C (meter reading):	30.52	~~29.96~~
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):	1011.9mB	
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; **subtract** 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	758.98
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		9
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	-
DO concentration after Calibration (mg/L):	7.66	~~7.85~~
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery 102.45	
DO Charge (DO ch):	Acceptable Range is 25 to 75 —	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.036074

Note:

CONDUCTIVITY [**Note:** Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)	FF19410200	1.413
Temperature (°C)		30.53
Reading before Calibration (mS/cm)		1.4619
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		0.931

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH **7.0** value before calibration:	# 21010066	7.00
pH **7.0** value after calibration:		7.00
pH **7.0** mV **(range is -50 to +50 mV)**:		-7.4
pH 10 value before calibration:	# 21080189	9.93
pH 10 value after calibration:		10.00
pH 10 mV **(range is -130 to -230 mV)**:		-177.9
pH **4.0** value before calibration:	# 21070193	4.07
pH **4.0** value after calibration:		4.00
pH **4.0** mV **(range is 130 to 230 mV)**:		164.2

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)			
Calibration Temperature (°C):	# 21140141	~~4.07~~	28.15
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	~~400~~	228.0
Reading before calibration (mV):		215.1	
Reading after calibration (mV):		224.63	

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY **Note: Lens wiper should be parked 180 degrees from the optics.**				
10 NTU Turbidity Standard	Before Cal:	10.3	After Cal:	10.4
20 NTU Turbidity Standard	Before Cal:		After Cal:	19.9
100 NTU Turbidity Standard	Before Cal:		After Cal:	100
800 NTU Turbidity Check STD	Before Cal:		After Cal:	805
_____ NTU Turbidity Check STD	Before Cal:		After Cal:	
CALIBRATION SUCCESSFUL?				YES

Date: 9-15-21
Time: 840
Prepared By: EVER GUILLEN
Checked By: _____

Wood.
Project No. 6122160170

Pine Sonde ID: 850762
Pine Handset ID: 850966
Battery Voltage %: 100

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		**VALUE**
Was DO membrane changed?	Yes_____ No ✓ Date:_____ Time:_____	
Current Air Temperature °C (meter reading):	21.78	21.61
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):	1009.9 MB	
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; **subtract** 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	757.48
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.37
DO concentration after Calibration (mg/L):		8.06
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery 95.48	
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.085654

Note:

CONDUCTIVITY [**Note:** Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)		1.413
Temperature (°C)		24.46
Reading before Calibration (mS/cm)		1.488
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		0.883

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH **7.0** value before calibration:		7.04
pH **7.0** value after calibration:		7.0
pH **7.0** mV **(range is -50 to +50 mV)**:		-10.6
pH 10 value before calibration:		10.02
pH 10 value after calibration:		10.0
pH 10 mV **(range is -130 to -230 mV)**:		-179.9
pH **4.0** value before calibration:		4.07
pH **4.0** value after calibration:		4.00
pH **4.0** mV **(range is 130 to 230 mV)**:		159.9

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)		
Calibration Temperature (°C):		25.33
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	228
Reading before calibration (mV):		229.0
Reading after calibration (mV):		228.50

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY **Note: Lens wiper should be parked 180 degrees from the optics.**				
10 NTU Turbidity Standard	Before Cal:	10.7	After Cal:	10.3
20 NTU Turbidity Standard	Before Cal:		After Cal:	20.1
100 NTU Turbidity Standard	Before Cal:		After Cal:	99.5
800 NTU Turbidity Check STD	Before Cal:		After Cal:	806
____ NTU Turbidity Check STD	Before Cal:		After Cal:	
CALIBRATION SUCCESSFUL?				YES

9
09

Date: 9-16-21
Time: 845
Prepared By: EverGuillen
Checked By: _____

Wood.
Project No. 6122160170

Pine Sonde ID: 850762
Pine Handset ID: 850966
Battery Voltage %: 100

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		**VALUE**
Was DO membrane changed?	Yes_____ No ✓ Date:_____ Time:_____	
Current Air Temperature °C (meter reading):		22.90
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; **subtract** 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	758.16
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.64
DO concentration after Calibration (mg/L):		8.64
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.077003

Note:

CONDUCTIVITY [**Note:** Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)		1.413
Temperature (°C)		22.87
Reading before Calibration (mS/cm)		1.423
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		0.841

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH **7.0** value before calibration:		7.02
pH **7.0** value after calibration:		7.00
pH 7.0 mV **(range is -50 to +50 mV)**:		-11.3
pH 10 value before calibration:		10.01
pH 10 value after calibration:		10.0
pH 10 mV **(range is -130 to -230 mV)**:		-179.6
pH **4.0** value before calibration:		4.05
pH **4.0** value after calibration:		4.00
pH **4.0** mV **(range is 130 to 230 mV)**:		156.8

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)		
Calibration Temperature (°C):		23.50
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	228
Reading before calibration (mV):		231.7
Reading after calibration (mV):		231.7

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY **Note: Lens wiper should be parked 180 degrees from the optics.**				
10 NTU Turbidity Standard	Before Cal:	10.8	After Cal:	10.4
20 NTU Turbidity Standard	Before Cal:		After Cal:	19.8
100 NTU Turbidity Standard	Before Cal:		After Cal:	99.2
800 NTU Turbidity Check STD	Before Cal:		After Cal:	782
_____ NTU Turbidity Check STD	Before Cal:		After Cal:	
CALIBRATION SUCCESSFUL?				YES

Date: 9/14/21
Time: 1310
Prepared By: Daniel Howard
Checked By: _____

Wood.
Project No. 6122160170

Pine Sonde ID: _____
Pine Handset ID: 843285
Battery Voltage %: _____

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		**VALUE**
Was DO membrane changed?	Yes_____ No ✓ Date:_____ Time:_____	
Current Air Temperature °C (meter reading):		30.47
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; **subtract** 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	1012.5 mbar
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	7.53
DO concentration after Calibration (mg/L):		7.34
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	100.51
DO Charge (DO ch):	Acceptable Range is 25 to 75	—
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.02005 slope

Note:

CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)	Lot # 19410200	1.413
Temperature (°C)		30.05
Reading before Calibration (mS/cm)		1.4169
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		0.987

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH 7.0 value before calibration:	Lot 21010066 Exp 8/22	7.02
pH 7.0 value after calibration:	29.55°C	7.00
pH 7.0 mV (**range is -50 to +50 mV**):		-5.3
pH 10 value before calibration:	Lot 21080189 6/22	10.05
pH 10 value after calibration:	29.18°C	10.00
pH 10 mV (**range is -130 to -230 mV**):		-176.7
pH 4.0 value before calibration:	Lot 21070193 8/22	4.00
pH 4.0 value after calibration:	29.19°C	4.00
pH 4.0 mV (**range is 130 to 230 mV**):		171.8

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)		
Calibration Temperature (°C):	Lot 21140141 8/22	29.23
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	223.58
Reading before calibration (mV):		220.3
Reading after calibration (mV):		223.58

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY Note: **Lens wiper should be parked 180 degrees from the optics.**				
20 NTU Turbidity Standard	Lot A0248 12/21	Before Cal:	After Cal:	19.5
100 NTU Turbidity Standard	Lot A0261 12/21	Before Cal:	After Cal:	96.7
800 NTU Turbidity Standard	Lot A0260 12/21	Before Cal:	After Cal:	794
10 NTU Turbidity Check STD	Lot A0261 12/21	Before Cal:	After Cal:	9.93
____ NTU Turbidity Check STD		Before Cal:	After Cal:	
CALIBRATION SUCCESSFUL?				

Hach 2100Q S/N 12050C017682

Date: 9/15/21
Time: 0815
Prepared By: Daniel Howard
Checked By: _____

Wood.
Project No. 6122160170

Pine Sonde ID: _____
Pine Handset ID: 843285
Battery Voltage %: 79

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		**VALUE**
Was DO membrane changed?	Yes_____ No ✓ Date:_____ Time:_____	
Current Air Temperature °C (meter reading):		24.96
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; **subtract** 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	m bar 1009.2
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.32
DO concentration after Calibration (mg/L):		
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	101.08
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.010214 slope

Note:

CONDUCTIVITY [**Note:** Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)	Lot# 19410200	1.413
Temperature (°C)		25.44
Reading before Calibration (mS/cm)		1.4221
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		0.982

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH 7.0 value before calibration:	Lot 21010066 Exp 8/22	7.01
pH 7.0 value after calibration:	25.58°C	7.00
pH 7.0 mV (**range is -50 to +50 mV**):		-6.1
pH 10 value before calibration:	Lot 21080189 6/22	10.00
pH 10 value after calibration:	25.48°C	10.00
pH 10 mV (**range is -130 to -230 mV**):		-177.3
pH **4.0** value before calibration:	Lot 21140141 8/22	4.01
pH **4.0** value after calibration:	25.67°C	4.00
pH **4.0** mV (**range is 130 to 230 mV**):		170.1

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)		
Calibration Temperature (°C):	Lot 21140141 8/22	25.74
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	228.11
Reading before calibration (mV):		229.1
Reading after calibration (mV):		228.11

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY **Note: Lens wiper should be parked 180 degrees from the optics.**				
20 NTU Turbidity Standard	Lot A0245 12/21	Before Cal:	After Cal:	19.9
100 NTU Turbidity Standard	Lot A0261 12/21	Before Cal:	After Cal:	101
800 NTU Turbidity Standard	Lot A0260 12/21	Before Cal:	After Cal:	803
10 NTU Turbidity Check STD	Lot A0261 12/21	Before Cal:	After Cal:	10.2
____ NTU Turbidity Check STD		Before Cal:	After Cal:	
CALIBRATION SUCCESSFUL?				

Hach 2100Q S/N 12050C017682

Date: 9/16/21
Time: 0900
Prepared By: Daniel Howard
Checked By: _____

Wood.
Project No. 6122160170

Pine Sonde ID: _____
Pine Handset ID: 843285
Battery Voltage %: 69

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		**VALUE**
Was DO membrane changed?	Yes____ No ✓ Date:____ Time:____	
Current Air Temperature °C (meter reading):		24.75
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; **subtract** 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	mbar 1009.8
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.17
DO concentration after Calibration (mg/L):		8.08
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	98.24
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.028745 slope

Note:

CONDUCTIVITY [**Note:** Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)	Lot# 19410200	1.413
Temperature (°C)		24.27
Reading before Calibration (mS/cm)		1403.0
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		0.988

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH **7.0** value before calibration:	Lot 21010066 8/22	7.02
pH **7.0** value after calibration:	24.33	7.00
pH **7.0** mV **(range is -50 to +50 mV)**:		-6.8
pH 10 value before calibration:	Lot 21080189 6/22	10.00
pH 10 value after calibration:	24.31	10.00
pH 10 mV **(range is -130 to -230 mV)**:		-176.8
pH **4.0** value before calibration:	Lot 21140141 8/22	4.02
pH **4.0** value after calibration:	24.35	4.00
pH **4.0** mV **(range is 130 to 230 mV)**:		168.3

Note: Span between ph 4 and 7. and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)		
Calibration Temperature (°C):	Lot 21140141 8/22	24.26
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	230.07
Reading before calibration (mV):		230.7
Reading after calibration (mV):		230.07

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY **Note: Lens wiper should be parked 180 degrees from the optics.**				
20 NTU Turbidity Standard	Lot A0248 12/21	Before Cal:	After Cal:	20.1
100 NTU Turbidity Standard	Lot A0261 12/21	Before Cal:	After Cal:	100
800 NTU Turbidity Standard	Lot A0260 12/21	Before Cal:	After Cal:	797
10 NTU Turbidity Check STD	Lot A0261 12/21	Before Cal:	After Cal:	10.1
____ NTU Turbidity Check STD		Before Cal:	After Cal:	
CALIBRATION SUCCESSFUL?				

Hach 2100Q S/N 12050C017682

APPENDIX D

STATISTICAL ANALYSES

GROUNDWATER STATS CONSULTING

February 28, 2022

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Mitchell Ash Pond
September 2021 Semi-Annual Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the September 2021 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical summary of groundwater data for Georgia Power Company's Plant Mitchell Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** PZ-1D, PZ-2D, PZ-31, and PZ-32
- **Downgradient wells:** PZ-7D, PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, and PZ-33

Note that well PZ-23 was abandoned and was replaced with well PZ-23A which was first sampled in March 2020. Since new well PZ-23A was installed in close proximity to well PZ-23, the data from the two wells were combined.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting.

The Coal Combustion Residuals (CCR) program monitors the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. Summaries of well/constituent pairs with 100% non-detects since 2016 for Appendix IV constituents follow this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Based on the previous screening, described below, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the screening report to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. 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.

Summary of Statistical Methods – Appendix III and IV Parameters:

Based on the March 2019 evaluation for state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for each Appendix III constituent
- Appendix IV: Confidence intervals on downgradient well data compared against Groundwater Protection Standards (GWPS) for each Appendix IV constituent

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric 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 following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

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.

In some cases, the earlier portion of data are deselected 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.

Summary of Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified and the reports were submitted with the screening. In cases where the most recent value was identified as an outlier, values were not flagged in the database at that time as they may represent a future trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e. measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit), and, therefore, were not flagged as outliers.

Of the outliers identified by Tukey's method, only a few of these values were flagged in the database as all other values are similar to remaining measurements within a given well or neighboring wells or were non-detects.

When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits

will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be visual, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends, and the reports were submitted with the screening. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses were included with the previous screening and showed one statistically significant decreasing trend for chloride at well PZ-25. This trend was relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to the data sets.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for boron and fluoride, making these constituents eligible for interwell analyses. Variation was noted for calcium, chloride, pH, sulfate and TDS. While data were further tested for intrawell eligibility during

the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Analysis of Appendix III Parameters – September 2021 Sample Event

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed using time series for potential outliers during this analysis. No new values were flagged as outlier and a summary of previously flagged outliers follows this report (Figure C). Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the time series graphs.

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 2021 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether statistically significant increases (SSIs) are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and, 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 interwell prediction limits follows this letter. The following interwell prediction limit exceedances were noted for the Appendix III parameters:

- Boron: PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33 and PZ-7D
- Calcium: PZ-18, PZ-19, and PZ-23A
- Chloride: PZ-15, PZ-16, and PZ-18
- pH: PZ-14, PZ-18, PZ-19, and PZ-23A
- Sulfate: PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, and PZ-7D
- TDS: PZ-15, PZ-17, PZ-18, PZ-19, and PZ-23A

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 to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of natural variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following downgradient and associated upgradient well/constituent pairs:

Increasing:

- Calcium: PZ-18, PZ-1D (upgradient), and PZ-31 (upgradient)
- Sulfate: PZ-14 and PZ-23A
- TDS: PZ-23A

Decreasing:

- Boron: PZ-7D
- Chloride: PZ-16, PZ-18, PZ-31 (upgradient), and PZ-32 (upgradient)
- Sulfate: PZ-16, PZ-25, PZ-31 (upgradient), and PZ-33

Statistical Analysis of Appendix IV Parameters – September 2021 Sample Event

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 well/constituent pairs containing 100% non-detects do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through September 2021 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under Georgia EPD Rule 391-3-4-.10(6)(a). As described in 40 CFR §257.95(h) (1-3), the GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following Georgia EPD Rule requirements, GWPS were established for statistical comparison of Appendix IV constituents for the September 2021 sample event according to the state rules (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in accordance with the state requirements in each downgradient well (Figure H). As mentioned above, well/constituent pairs contained 100% non-detects did not require analysis. All downgradient wells for beryllium contained 100$ non-detects; therefore, this constituent was not analyzed. The Sanitas software was used to calculate the tolerance limits and the confidence intervals. The confidence intervals were compared to the GWPS established using the Georgia EPD Rules 391-3-4-.10(6)(a). 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. No exceedances were identified and summaries and graphical results of the confidence intervals analyses follow this letter.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Mitchell Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Easton Rayner
Groundwater Analyst

Andrew Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient Wells

Analysis Run 11/5/2021 1:56 AM View: AIV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Antimony (mg/L)
PZ-25

Arsenic (mg/L)
PZ-16, PZ-18, PZ-7D

Beryllium (mg/L)
PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-7D

Cadmium (mg/L)
PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-25, PZ-7D

Chromium (mg/L)
PZ-15, PZ-17, PZ-25

Cobalt (mg/L)
PZ-7D

Lead (mg/L)
PZ-14, PZ-17, PZ-25

Lithium (mg/L)
PZ-16, PZ-33

Molybdenum (mg/L)
PZ-18, PZ-33, PZ-7D

Selenium (mg/L)
PZ-16, PZ-17, PZ-18, PZ-25, PZ-33

Appendix III Interwell Prediction Limits - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/8/2021, 3:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-15	0.02677	n/a	9/15/2021	0.16	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02677	n/a	9/15/2021	0.16	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02677	n/a	9/16/2021	0.22	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02677	n/a	9/16/2021	0.31	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02677	n/a	9/16/2021	0.46	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02677	n/a	9/15/2021	0.15	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02677	n/a	9/15/2021	0.17	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02677	n/a	9/16/2021	0.31	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02677	n/a	9/16/2021	0.18	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	109.2	n/a	9/16/2021	135	Yes	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	109.2	n/a	9/16/2021	137	Yes	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	109.2	n/a	9/15/2021	147	Yes	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	4.565	n/a	9/15/2021	5.8	Yes	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-16	4.565	n/a	9/15/2021	5.6	Yes	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.565	n/a	9/16/2021	4.7	Yes	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
pH (SU)	PZ-14	9.48	6.96	9/15/2021	6.94	Yes	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	9/16/2021	6.85	Yes	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	9/16/2021	6.77	Yes	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	9/15/2021	6.72	Yes	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	6.362	n/a	9/15/2021	11.4	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	6.362	n/a	9/15/2021	73.4	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	6.362	n/a	9/15/2021	37.8	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	6.362	n/a	9/16/2021	70.9	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	6.362	n/a	9/16/2021	86.9	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	6.362	n/a	9/16/2021	72.7	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	6.362	n/a	9/15/2021	46.8	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	6.362	n/a	9/15/2021	37.8	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	6.362	n/a	9/16/2021	40.4	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	6.362	n/a	9/16/2021	41.8	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-15	309.7	n/a	9/15/2021	326	Yes	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	309.7	n/a	9/16/2021	330	Yes	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	309.7	n/a	9/16/2021	419	Yes	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	309.7	n/a	9/16/2021	450	Yes	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	309.7	n/a	9/15/2021	422	Yes	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/8/2021, 3:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-14	0.02677	n/a	9/15/2021	0.022J	No	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	**PZ-15**	**0.02677**	**n/a**	**9/15/2021**	**0.16**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-16**	**0.02677**	**n/a**	**9/15/2021**	**0.16**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-17**	**0.02677**	**n/a**	**9/16/2021**	**0.22**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-18**	**0.02677**	**n/a**	**9/16/2021**	**0.31**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-19**	**0.02677**	**n/a**	**9/16/2021**	**0.46**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-23A**	**0.02677**	**n/a**	**9/15/2021**	**0.15**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-25**	**0.02677**	**n/a**	**9/15/2021**	**0.17**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-33**	**0.02677**	**n/a**	**9/16/2021**	**0.31**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-7D**	**0.02677**	**n/a**	**9/16/2021**	**0.18**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-14	109.2	n/a	9/15/2021	106	No	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-15	109.2	n/a	9/15/2021	94	No	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-16	109.2	n/a	9/15/2021	91	No	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-17	109.2	n/a	9/16/2021	102	No	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	**PZ-18**	**109.2**	**n/a**	**9/16/2021**	**135**	**Yes**	**55**	**55.95**	**26.35**	**1.818**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-19**	**109.2**	**n/a**	**9/16/2021**	**137**	**Yes**	**55**	**55.95**	**26.35**	**1.818**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-23A**	**109.2**	**n/a**	**9/15/2021**	**147**	**Yes**	**55**	**55.95**	**26.35**	**1.818**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-25	109.2	n/a	9/15/2021	84.4	No	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-33	109.2	n/a	9/16/2021	92	No	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-7D	109.2	n/a	9/16/2021	109	No	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-14	4.565	n/a	9/15/2021	3.9	No	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	**PZ-15**	**4.565**	**n/a**	**9/15/2021**	**5.8**	**Yes**	**56**	**1.748**	**0.1928**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-16**	**4.565**	**n/a**	**9/15/2021**	**5.6**	**Yes**	**56**	**1.748**	**0.1928**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	PZ-17	4.565	n/a	9/16/2021	4.2	No	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	**PZ-18**	**4.565**	**n/a**	**9/16/2021**	**4.7**	**Yes**	**56**	**1.748**	**0.1928**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	PZ-19	4.565	n/a	9/16/2021	3.5	No	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-23A	4.565	n/a	9/15/2021	2.8	No	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-25	4.565	n/a	9/15/2021	1.8	No	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-33	4.565	n/a	9/16/2021	1.5	No	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-7D	4.565	n/a	9/16/2021	3.3	No	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	9/15/2021	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	9/15/2021	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	9/15/2021	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	9/16/2021	0.052J	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	9/16/2021	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	9/16/2021	0.067J	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	9/15/2021	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	9/15/2021	0.14	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	9/16/2021	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	9/16/2021	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
pH (SU)	**PZ-14**	**9.48**	**6.96**	**9/15/2021**	**6.94**	**Yes**	**56**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001205**	**NP Inter (normality) 1 of 2**
pH (SU)	PZ-15	9.48	6.96	9/15/2021	7.09	No	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	PZ-16	9.48	6.96	9/15/2021	7.12	No	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	9/16/2021	7.03	No	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	**PZ-18**	**9.48**	**6.96**	**9/16/2021**	**6.85**	**Yes**	**56**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001205**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-19**	**9.48**	**6.96**	**9/16/2021**	**6.77**	**Yes**	**56**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001205**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-23A**	**9.48**	**6.96**	**9/15/2021**	**6.72**	**Yes**	**56**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001205**	**NP Inter (normality) 1 of 2**
pH (SU)	PZ-25	9.48	6.96	9/15/2021	7.05	No	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	9/16/2021	7.1	No	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	9/16/2021	6.96	No	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/8/2021, 3:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	**PZ-14**	**6.362**	**n/a**	**9/15/2021**	**11.4**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-15**	**6.362**	**n/a**	**9/15/2021**	**73.4**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-16**	**6.362**	**n/a**	**9/15/2021**	**37.8**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-17**	**6.362**	**n/a**	**9/16/2021**	**70.9**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-18**	**6.362**	**n/a**	**9/16/2021**	**86.9**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-19**	**6.362**	**n/a**	**9/16/2021**	**72.7**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-23A**	**6.362**	**n/a**	**9/15/2021**	**46.8**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-25**	**6.362**	**n/a**	**9/15/2021**	**37.8**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-33**	**6.362**	**n/a**	**9/16/2021**	**40.4**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-7D**	**6.362**	**n/a**	**9/16/2021**	**41.8**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-14	309.7	n/a	9/15/2021	292	No	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-15**	**309.7**	**n/a**	**9/15/2021**	**326**	**Yes**	**56**	**172.8**	**67.84**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-16	309.7	n/a	9/15/2021	270	No	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-17**	**309.7**	**n/a**	**9/16/2021**	**330**	**Yes**	**56**	**172.8**	**67.84**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-18**	**309.7**	**n/a**	**9/16/2021**	**419**	**Yes**	**56**	**172.8**	**67.84**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-19**	**309.7**	**n/a**	**9/16/2021**	**450**	**Yes**	**56**	**172.8**	**67.84**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-23A**	**309.7**	**n/a**	**9/15/2021**	**422**	**Yes**	**56**	**172.8**	**67.84**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-25	309.7	n/a	9/15/2021	272	No	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-33	309.7	n/a	9/16/2021	296	No	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-7D	309.7	n/a	9/16/2021	307	No	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2

Trend Test - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 10/24/2021, 10:38 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**PZ-7D**	**-0.04063**	**-65**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**4.575**	**56**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-1D (bg)**	**1.872**	**48**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-31 (bg)**	**2.812**	**56**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-16**	**-0.3826**	**-57**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-18**	**-0.3694**	**-55**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-31 (bg)**	**-0.4171**	**-66**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-32 (bg)**	**-0.2327**	**-51**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-14**	**1.865**	**66**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-16**	**-2.962**	**-57**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-23A**	**5.699**	**75**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-2.693**	**-63**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-31 (bg)**	**-1.169**	**-66**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-33**	**-12.81**	**-79**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**PZ-23A**	**12.56**	**51**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Test - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 10/24/2021, 10:38 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-15	-0.008864	-34	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0	-2	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-17	-0.003985	-9	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-18	0	0	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.0268	-35	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.000653	12	48	No	14	7.143	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-23A	-0.001463	-12	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.005879	-28	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-2D (bg)	-0.001032	-24	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-31 (bg)	-0.001085	-21	-48	No	14	14.29	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	0	-1	-48	No	14	7.143	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-33	-0.01322	-57	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-7D**	**-0.04063**	**-65**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**4.575**	**56**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-19	0.8913	10	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-1D (bg)**	**1.872**	**48**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-23A	4.113	42	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	4.1	21	48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-31 (bg)**	**2.812**	**56**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-32 (bg)	1.937	45	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.2284	-32	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-16**	**-0.3826**	**-57**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-18**	**-0.3694**	**-55**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-1D (bg)	-0.06652	-27	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	-0.03144	-14	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-31 (bg)**	**-0.4171**	**-66**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-32 (bg)**	**-0.2327**	**-51**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	PZ-14	0.009753	10	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-18	-0.01097	-26	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.01081	18	58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	PZ-1D (bg)	-0.02483	-27	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.009918	13	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.1692	-11	-30	No	10	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	-0.004454	-12	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	-0.002048	-4	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-14**	**1.865**	**66**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-15	0.7309	21	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-16**	**-2.962**	**-57**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-17	-3.072	-30	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-18	-1.634	-26	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-19	-1.973	-46	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-1D (bg)	0.06271	20	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-23A**	**5.699**	**75**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-2.693**	**-63**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-2D (bg)	-0.6784	-43	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-31 (bg)**	**-1.169**	**-66**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-32 (bg)	0	2	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-33**	**-12.81**	**-79**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-7D	-2.054	-36	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-15	8.599	27	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-17	-14.24	-37	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-18	-0.9707	-4	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-19	-12.35	-35	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-1D (bg)	3.384	22	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	**PZ-23A**	**12.56**	**51**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	PZ-2D (bg)	9.178	23	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-31 (bg)	0	0	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-32 (bg)	1.629	16	48	No	14	0	n/a	n/a	0.01	NP

Upper Tolerance Limits

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/5/2021, 1:49 AM

Constituent	Upper Lim.	Bg N	Std. Dev.	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.0035	56	n/a	53.57	n/a	0.05656	NP Inter(NDs)
Arsenic (mg/L)	0.005	48	n/a	85.42	n/a	0.08526	NP Inter(NDs)
Barium (mg/L)	0.05193	56	0.6931	1.786	ln(x)	0.05	Inter
Beryllium (mg/L)	0.0005	40	n/a	95	n/a	0.1285	NP Inter(NDs)
Cadmium (mg/L)	0.0005	40	n/a	100	n/a	0.1285	NP Inter(NDs)
Chromium (mg/L)	0.011	56	n/a	25	n/a	0.05656	NP Inter(normality)
Cobalt (mg/L)	0.005	56	n/a	96.43	n/a	0.05656	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.73	54	0.2766	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.29	60	n/a	48.33	n/a	0.04607	NP Inter(normality)
Lead (mg/L)	0.001	56	n/a	76.79	n/a	0.05656	NP Inter(NDs)
Lithium (mg/L)	0.03	56	n/a	80.36	n/a	0.05656	NP Inter(NDs)
Mercury (mg/L)	0.0002	48	n/a	91.67	n/a	0.08526	NP Inter(NDs)
Molybdenum (mg/L)	0.01	56	n/a	76.79	n/a	0.05656	NP Inter(NDs)
Selenium (mg/L)	0.005	56	n/a	100	n/a	0.05656	NP Inter(NDs)
Thallium (mg/L)	0.001	56	n/a	89.29	n/a	0.05656	NP Inter(NDs)

PLANT MITCHELL ASH POND GWPS			
Constituent Name	**MCL**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006	0.0035	0.006
Arsenic, Total (mg/L)	0.01	0.005	0.01
Barium, Total (mg/L)	2	0.055	2
Beryllium, Total (mg/L)	0.004	0.0005	0.004
Cadmium, Total (mg/L)	0.005	0.0005	0.005
Chromium, Total (mg/L)	0.1	0.011	0.1
Cobalt, Total (mg/L)	n/a	0.005	0.005
Combined Radium, Total (pCi/L)	5	1.73	5
Fluoride, Total (mg/L)	4	0.29	4
Lead, Total (mg/L)	n/a	0.001	0.001
Lithium, Total (mg/L)	n/a	0.03	0.03
Mercury, Total (mg/L)	0.002	0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.01	0.01
Selenium, Total (mg/L)	0.05	0.005	0.05
Thallium, Total (mg/L)	0.002	0.001	0.002

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/8/2021, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-14	0.003	0.0004	0.006	No	14	0.002814	0.0006949	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-15	0.003	0.001	0.006	No	14	0.002687	0.0007988	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-16	0.003	0.00037	0.006	No	14	0.002812	0.0007029	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-17	0.003	0.00094	0.006	No	14	0.002507	0.0009828	78.57	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-18	0.003	0.0018	0.006	No	14	0.0028	0.0005144	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-19	0.003	0.00044	0.006	No	14	0.002817	0.0006842	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-23A	0.003	0.0017	0.006	No	14	0.00272	0.0007574	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-33	0.003	0.00037	0.006	No	14	0.002812	0.0007029	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-7D	0.003	0.00042	0.006	No	14	0.00243	0.001133	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-14	0.005	0.00083	0.01	No	12	0.004652	0.001204	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-15	0.005	0.00089	0.01	No	12	0.003966	0.001874	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-17	0.005	0.0007	0.01	No	12	0.003927	0.001942	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-19	0.005	0.0007	0.01	No	12	0.004642	0.001241	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-23A	0.005	0.00036	0.01	No	12	0.004613	0.001339	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-25	0.005	0.00071	0.01	No	12	0.00367	0.001981	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-33	0.005	0.00094	0.01	No	12	0.004303	0.001628	83.33	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-14	0.03343	0.01769	2	No	14	0.02635	0.01338	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	PZ-15	0.076	0.047	2	No	14	0.05957	0.01623	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-16	0.0467	0.034	2	No	14	0.04414	0.01373	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-17	0.07984	0.07177	2	No	14	0.07581	0.005696	0	None	No	0.01	Param.
Barium (mg/L)	PZ-18	0.029	0.023	2	No	14	0.03007	0.01406	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-19	0.05928	0.05299	2	No	14	0.05614	0.004441	0	None	No	0.01	Param.
Barium (mg/L)	PZ-23A	0.05249	0.03709	2	No	14	0.04479	0.01087	0	None	No	0.01	Param.
Barium (mg/L)	PZ-25	0.1098	0.1003	2	No	14	0.1051	0.006668	0	None	No	0.01	Param.
Barium (mg/L)	PZ-33	0.07376	0.0527	2	No	13	0.06323	0.01416	0	None	No	0.01	Param.
Barium (mg/L)	PZ-7D	0.01022	0.006993	2	No	14	0.008607	0.002278	0	None	No	0.01	Param.
Cadmium (mg/L)	PZ-23A	0.0005	0.0002	0.005	No	10	0.00044	0.0001265	80	None	No	0.011	NP (NDs)
Cadmium (mg/L)	PZ-33	0.0005	0.0005	0.005	No	10	0.00046	0.0001265	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	PZ-14	0.005	0.0011	0.1	No	14	0.003625	0.001917	64.29	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-16	0.005	0.00087	0.1	No	14	0.002986	0.002099	50	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-18	0.005	0.00056	0.1	No	14	0.004683	0.001187	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-19	0.005	0.00073	0.1	No	14	0.004695	0.001141	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-23A	0.002177	0.001208	0.1	No	14	0.002543	0.001558	21.43	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	PZ-33	0.005	0.0017	0.1	No	14	0.004764	0.000882	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-7D	0.005	0.0005	0.1	No	14	0.002743	0.001903	35.71	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-14	0.005	0.002	0.005	No	14	0.00445	0.001437	85.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-15	0.005	0.0005	0.005	No	14	0.003429	0.002196	64.29	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-16	0.005	0.0005	0.005	No	14	0.004679	0.001203	92.86	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-17	0.005	0.0005	0.005	No	14	0.003116	0.002264	57.14	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-18	0.005	0.0011	0.005	No	14	0.004721	0.001042	92.86	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-19	0.005	0.0012	0.005	No	14	0.004436	0.001436	85.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-23A	0.005	0.00058	0.005	No	14	0.003417	0.002206	64.29	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-25	0.001906	0.0009369	0.005	No	14	0.001539	0.001077	7.143	None	ln(x)	0.01	Param.
Cobalt (mg/L)	PZ-33	0.005	0.0007	0.005	No	14	0.003416	0.002085	57.14	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-14	1.054	0.3414	5	No	14	0.7396	0.5739	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-15	1.061	0.663	5	No	14	0.8877	0.3508	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-16	0.8877	0.4702	5	No	14	0.6929	0.3166	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-17	1.248	0.6265	5	No	13	0.9375	0.4182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-18	1.29	0.4962	5	No	12	0.8933	0.5061	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-19	1.417	0.7685	5	No	14	1.093	0.4581	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-23A	1.261	0.7822	5	No	14	1.022	0.3378	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-25	1.237	0.8177	5	No	14	1.027	0.2961	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-33	1.066	0.5582	5	No	14	0.8119	0.3582	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-7D	0.6187	0.1957	5	No	14	0.4324	0.3455	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-14	0.11	0.056	4	No	15	0.0904	0.02472	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-15	0.1244	0.07151	4	No	15	0.1103	0.04654	33.33	Kaplan-Meier	ln(x)	0.01	Param.

Confidence Intervals - All Results (No Significant)

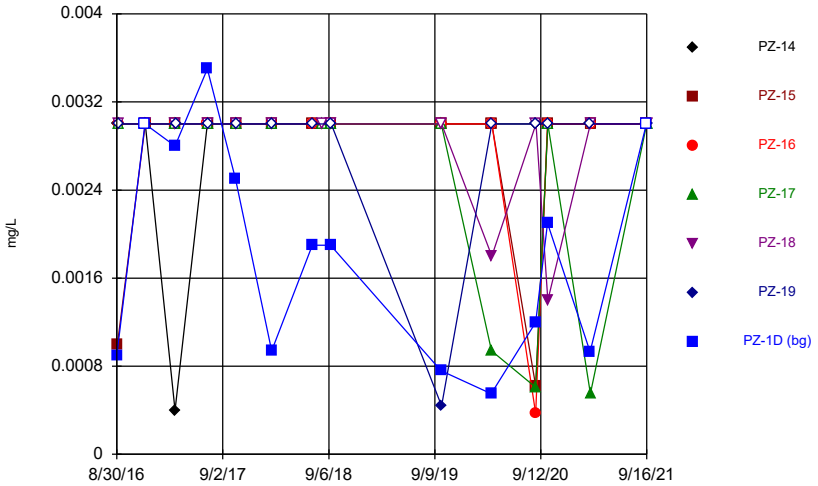
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/8/2021, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	PZ-16	0.1	0.05	4	No	15	0.0842	0.02444	60	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-17	0.1427	0.05527	4	No	15	0.1219	0.06678	33.33	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-18	0.12	0.08	4	No	15	0.1026	0.03489	53.33	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-19	0.15	0.064	4	No	15	0.1137	0.07902	13.33	None	No	0.01	NP (normality)
Fluoride (mg/L)	PZ-23A	0.13	0.052	4	No	15	0.1008	0.06131	40	None	No	0.01	NP (normality)
Fluoride (mg/L)	PZ-25	0.2526	0.154	4	No	15	0.2033	0.07277	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-33	0.15	0.06	4	No	15	0.1066	0.04413	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-7D	0.15	0.045	4	No	15	0.08973	0.03154	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-15	0.001	0.00005	0.001	No	14	0.0009321	0.0002539	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-16	0.001	0.000081	0.001	No	14	0.0009344	0.0002456	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-18	0.001	0.00043	0.001	No	14	0.0008909	0.0002877	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-19	0.001	0.000042	0.001	No	14	0.0009316	0.000256	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-23A	0.001	0.00015	0.001	No	14	0.0008039	0.0003903	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-33	0.001	0.00009	0.001	No	14	0.0008669	0.0003384	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-7D	0.001	0.000041	0.001	No	14	0.0009315	0.0002563	92.86	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14	0.03	0.003	0.03	No	14	0.02807	0.007216	92.86	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-15	0.03	0.0012	0.03	No	14	0.01154	0.01428	35.71	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-17	0.003	0.002	0.03	No	14	0.006336	0.01003	14.29	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-18	0.003	0.0024	0.03	No	14	0.006557	0.009935	14.29	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-19	0.01458	0.01014	0.03	No	14	0.01236	0.003135	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-23A	0.03	0.001	0.03	No	14	0.01964	0.01442	64.29	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-25	0.006651	0.005483	0.03	No	14	0.005979	0.001011	0	None	x^3	0.01	Param.
Lithium (mg/L)	PZ-7D	0.0034	0.0023	0.03	No	14	0.004757	0.007283	7.143	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-14	0.0002	0.00015	0.002	No	12	0.000185	0.00003896	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-15	0.0002	0.000097	0.002	No	12	0.0001914	0.00002973	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-16	0.0002	0.000068	0.002	No	12	0.000189	0.00003811	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-17	0.0002	0.000086	0.002	No	12	0.0001905	0.00003291	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-18	0.0002	0.000057	0.002	No	12	0.0001881	0.00004128	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-19	0.0002	0.0001	0.002	No	12	0.0001787	0.000051	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-23A	0.0002	0.00017	0.002	No	12	0.0001883	0.00003215	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-25	0.0002	0.000053	0.002	No	12	0.0001877	0.00004244	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-33	0.0002	0.000043	0.002	No	12	0.0001662	0.00006346	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-7D	0.0002	0.00006	0.002	No	12	0.0001761	0.00005588	83.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-14	0.01	0.0005	0.01	No	14	0.009321	0.002539	92.86	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-15	0.01	0.0004	0.01	No	14	0.009314	0.002566	92.86	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-16	0.01	0.0004	0.01	No	14	0.009314	0.002566	92.86	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-17	0.01	0.0004	0.01	No	14	0.009314	0.002566	92.86	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-19	0.0025	0.002	0.01	No	14	0.002771	0.002091	7.143	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-23A	0.01	0.0011	0.01	No	14	0.008693	0.003324	85.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-25	0.01	0.001	0.01	No	14	0.009357	0.002405	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-14	0.005	0.0015	0.05	No	14	0.004479	0.001327	85.71	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-15	0.005	0.0018	0.05	No	14	0.004771	0.0008552	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-19	0.005	0.0031	0.05	No	14	0.003907	0.00128	50	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-23A	0.005	0.0024	0.05	No	14	0.003671	0.001429	50	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-7D	0.005	0.0018	0.05	No	14	0.004307	0.001377	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-14	0.001	0.00006	0.002	No	14	0.0009329	0.0002512	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-15	0.001	0.0002	0.002	No	14	0.0006579	0.000411	57.14	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-16	0.001	0.00018	0.002	No	14	0.0006431	0.0004292	57.14	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-17	0.001	0.00022	0.002	No	14	0.0006829	0.0003839	57.14	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-18	0.001	0.000071	0.002	No	14	0.0007972	0.000403	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-19	0.0007501	0.0004714	0.002	No	14	0.0006107	0.0001967	7.143	None	No	0.01	Param.
Thallium (mg/L)	PZ-23A	0.001	0.00016	0.002	No	14	0.00048	0.0004049	35.71	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-25	0.001	0.00036	0.002	No	14	0.0007336	0.0003323	57.14	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-33	0.001	0.0001	0.002	No	14	0.0006879	0.0004351	64.29	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-7D	0.001	0.000085	0.002	No	14	0.0006831	0.0004421	64.29	None	No	0.01	NP (NDs)

FIGURE A.

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

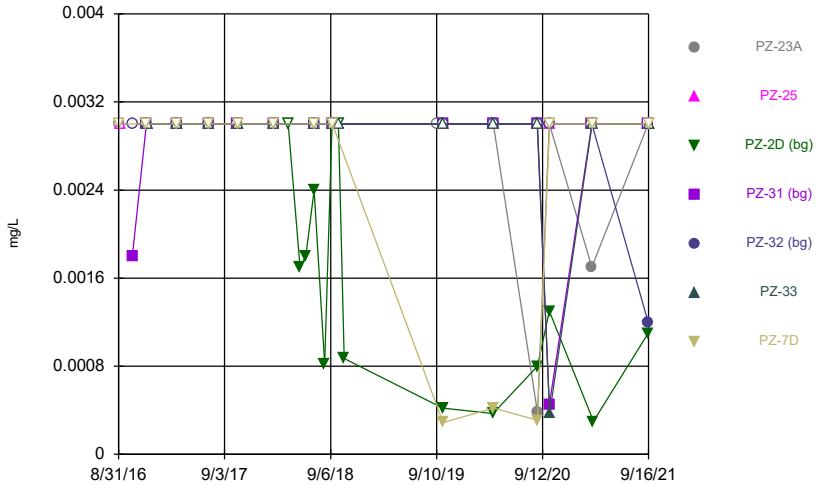
Time Series



Constituent: Antimony Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

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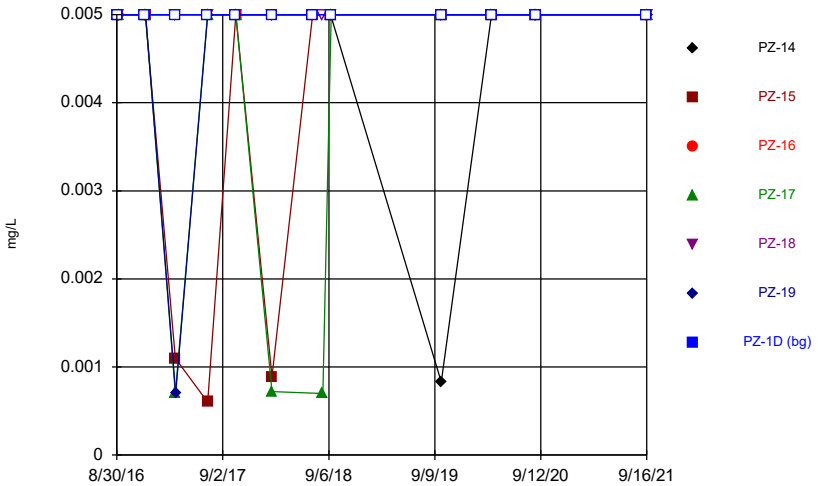
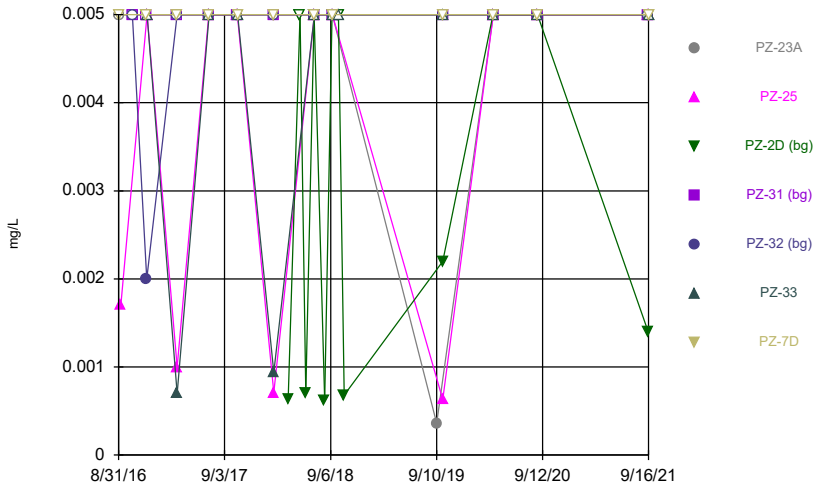


Constituent: Arsenic Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

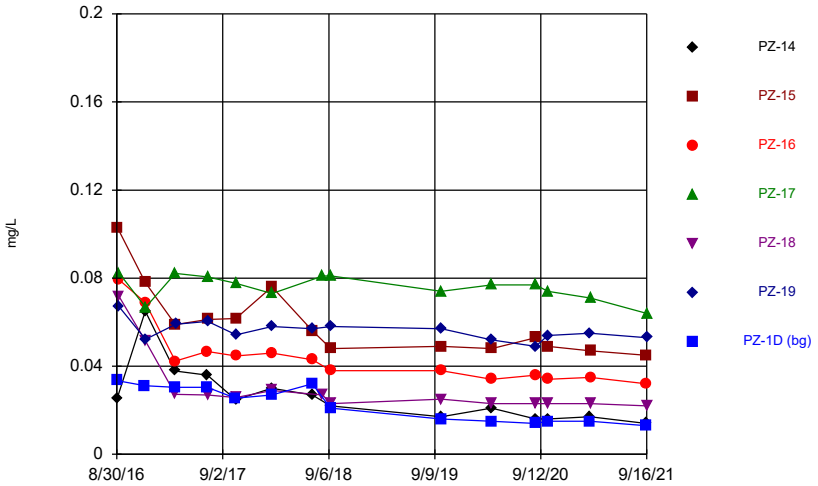
Time Series



Constituent: Arsenic Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Time Series



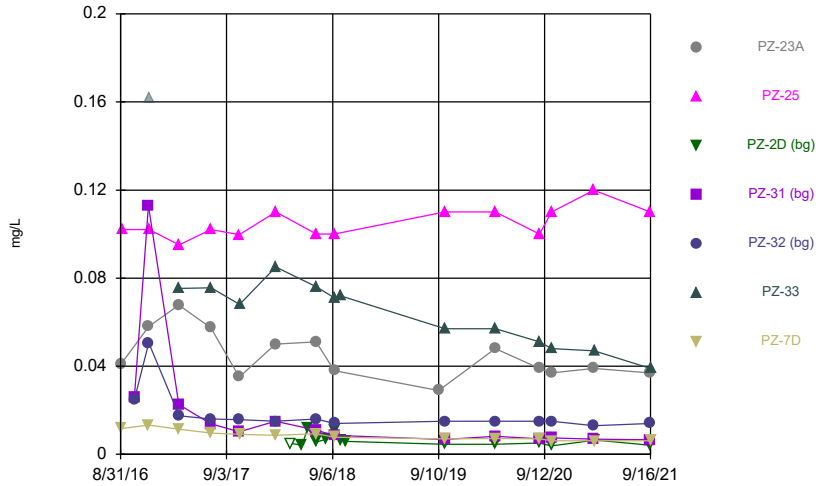
Constituent: Barium Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Hollow symbols indicate censored values.

Time Series



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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

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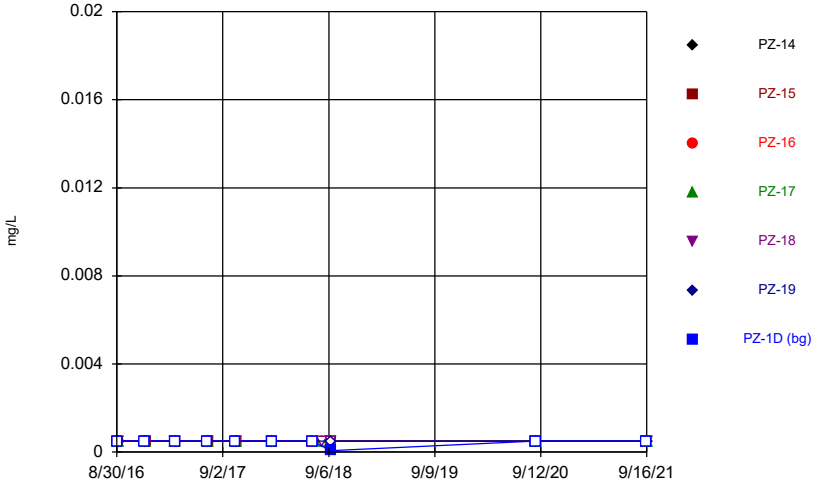
Time Series



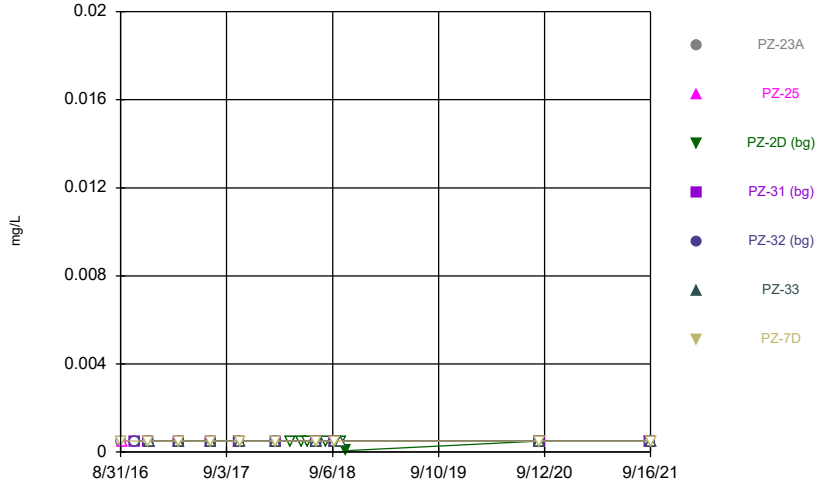
Constituent: Beryllium Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Hollow symbols indicate censored values.

Time Series

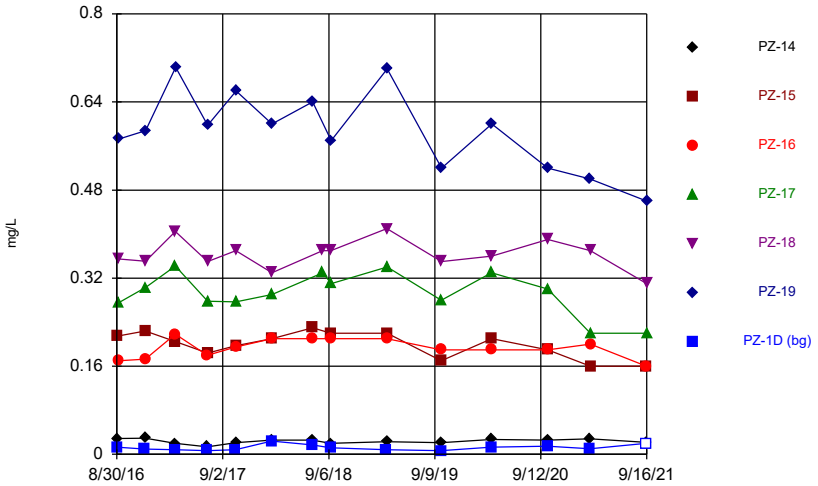


Constituent: Beryllium Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

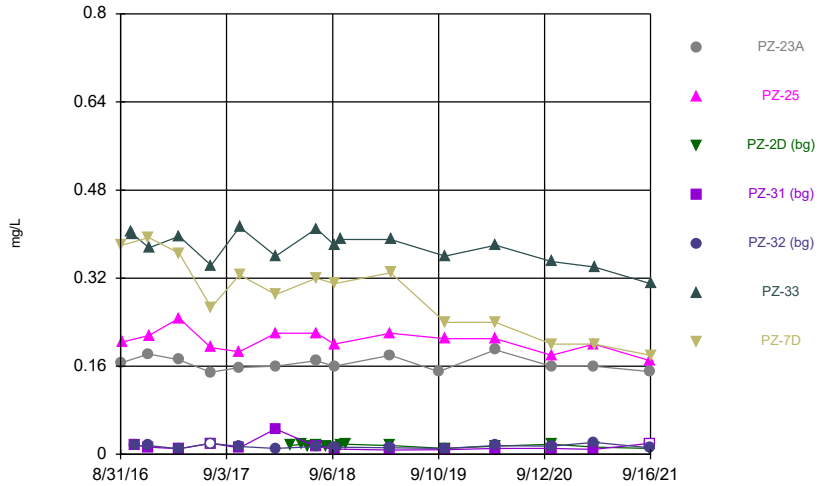
Time Series



Constituent: Boron Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

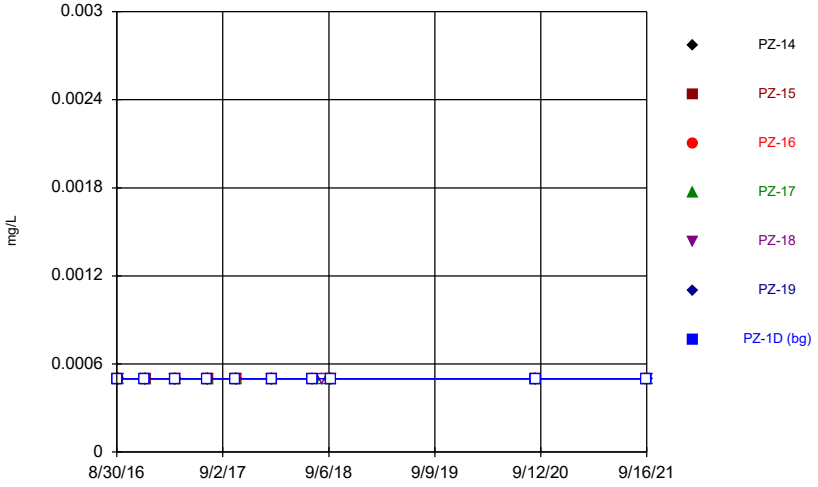
Time Series



Constituent: Boron Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

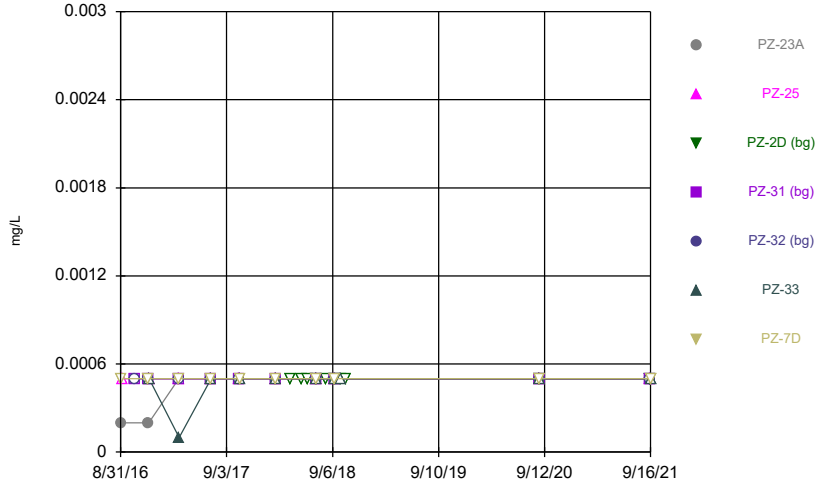
Time Series



Constituent: Cadmium Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

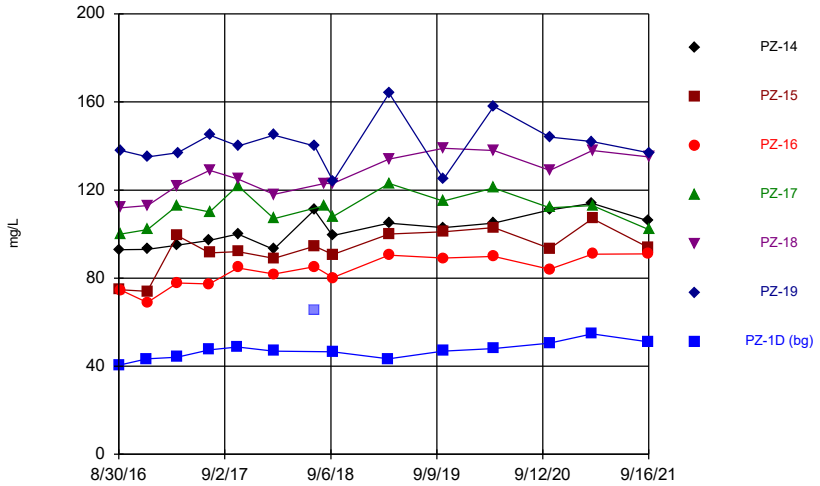
Time Series



Constituent: Cadmium Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Time Series



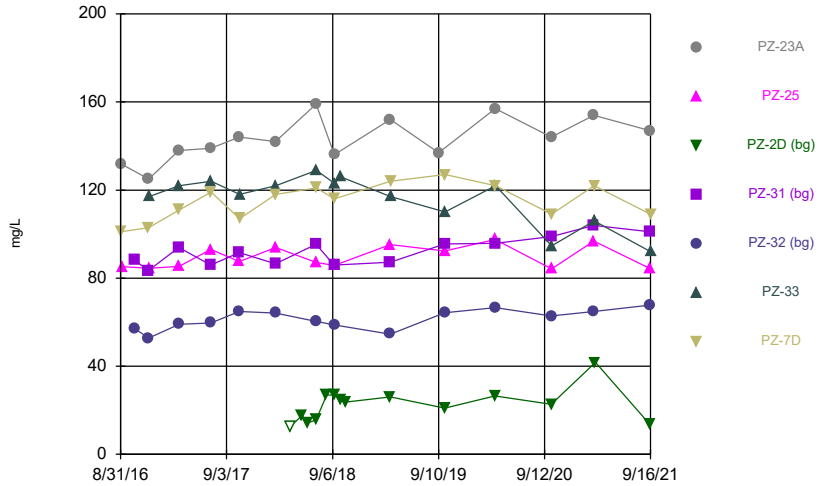
Constituent: Calcium Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Hollow symbols indicate censored values.

Time Series

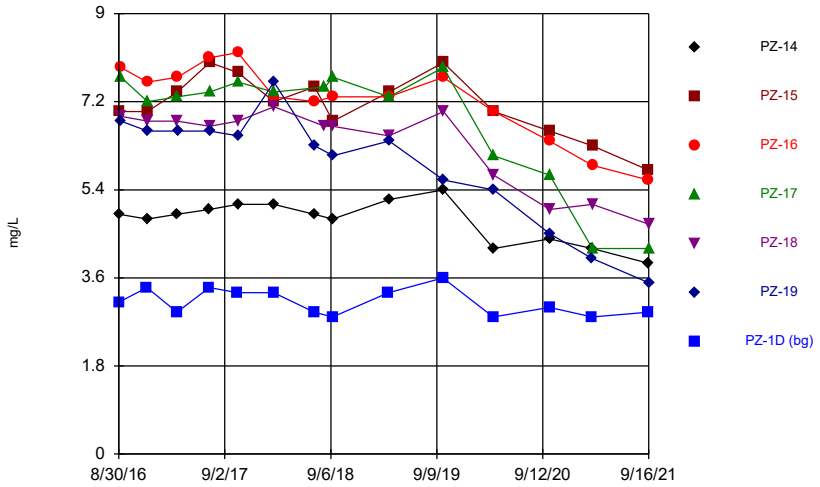


Constituent: Calcium Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Time Series

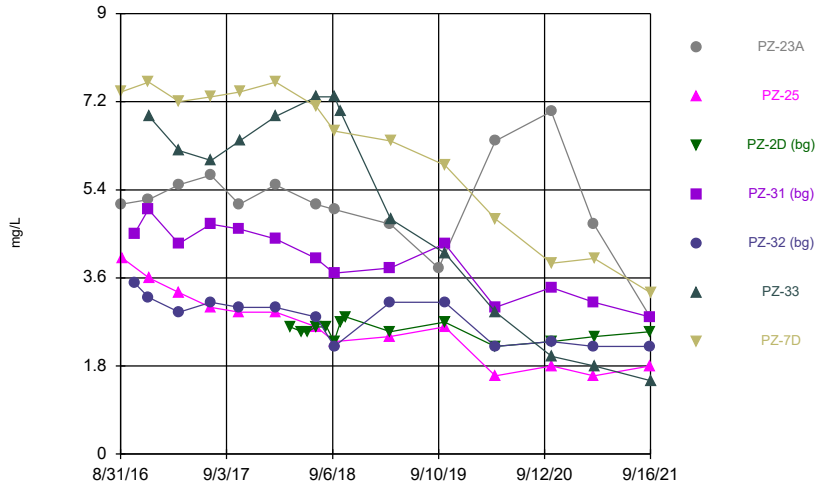


Constituent: Chloride Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Time Series

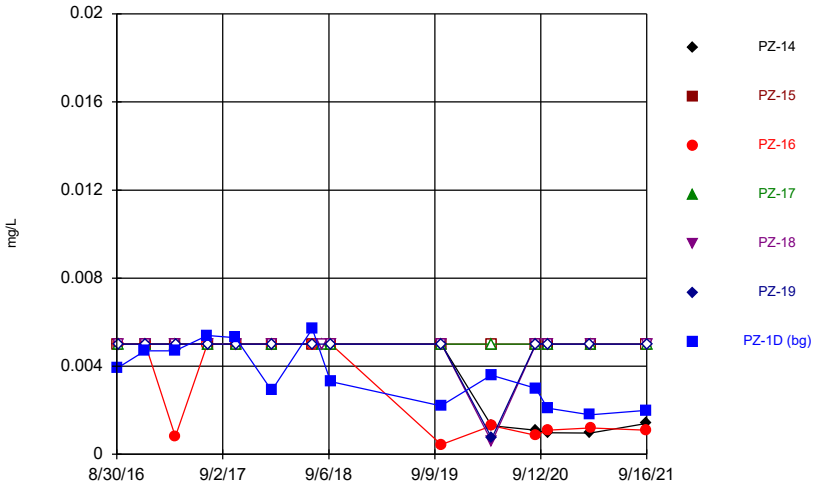


Constituent: Chloride Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

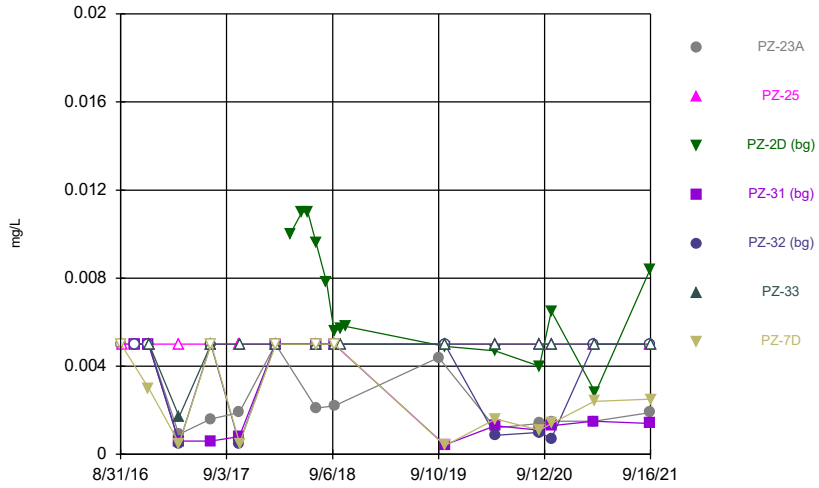
Time Series



Constituent: Chromium Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

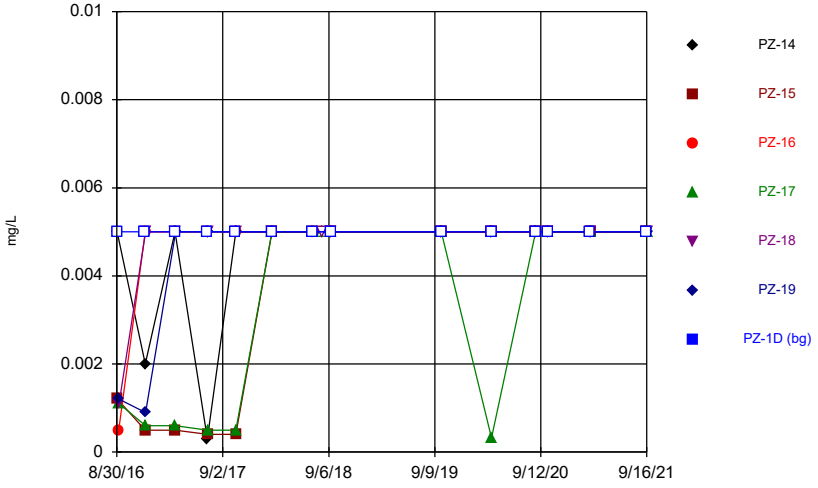
Time Series



Constituent: Chromium Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

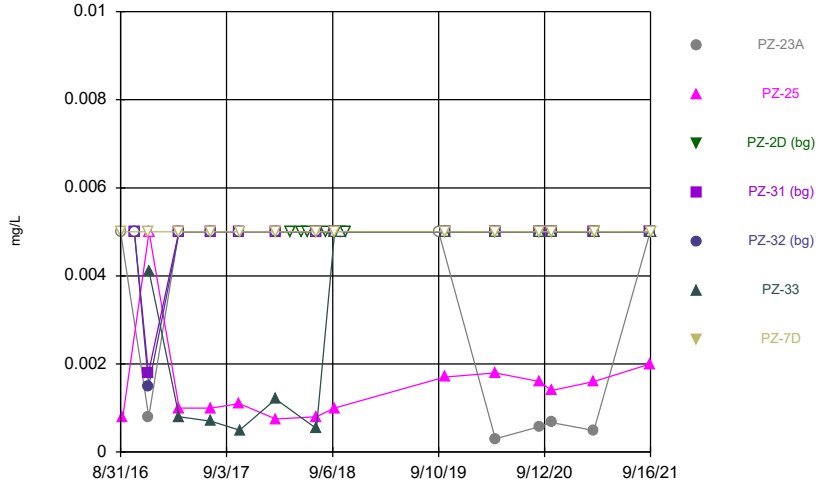
Time Series



Constituent: Cobalt Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

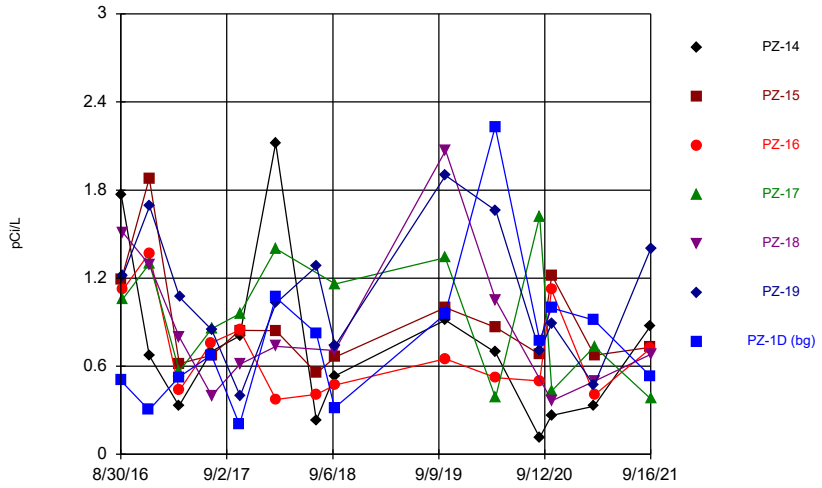
Time Series



Constituent: Cobalt Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Time Series

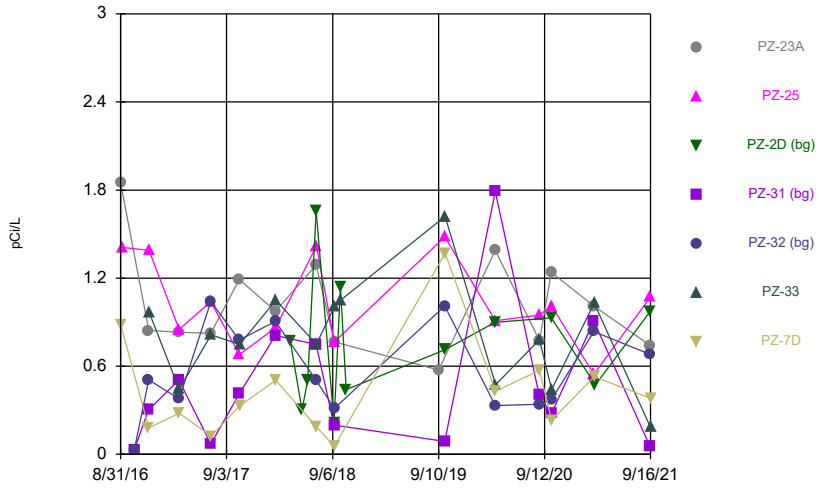


Constituent: Combined Radium 226 + 228 Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Time Series



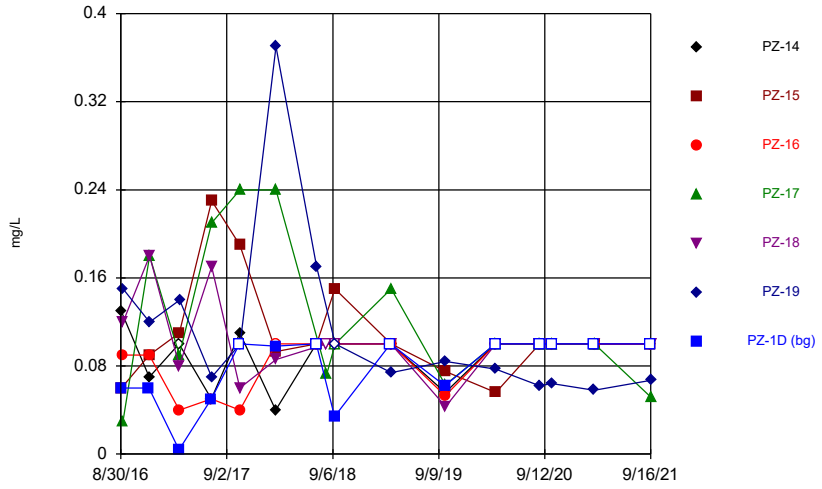
Constituent: Combined Radium 226 + 228 Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Hollow symbols indicate censored values.

Time Series



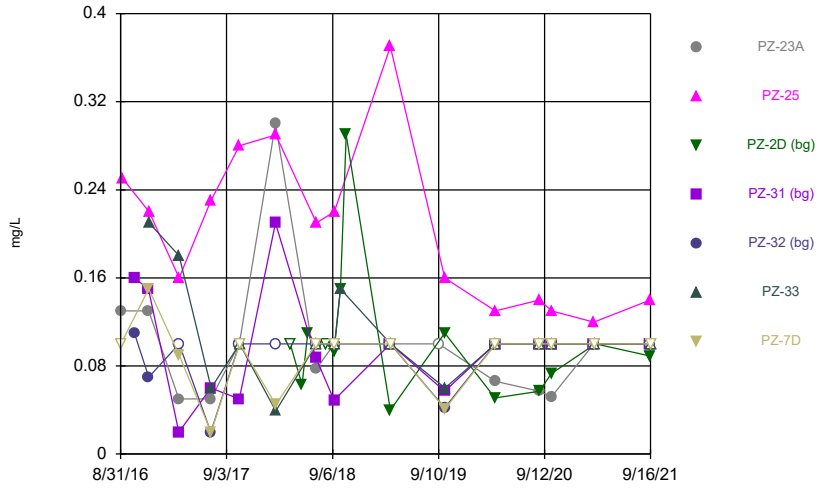
Constituent: Fluoride Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Hollow symbols indicate censored values.

Time Series

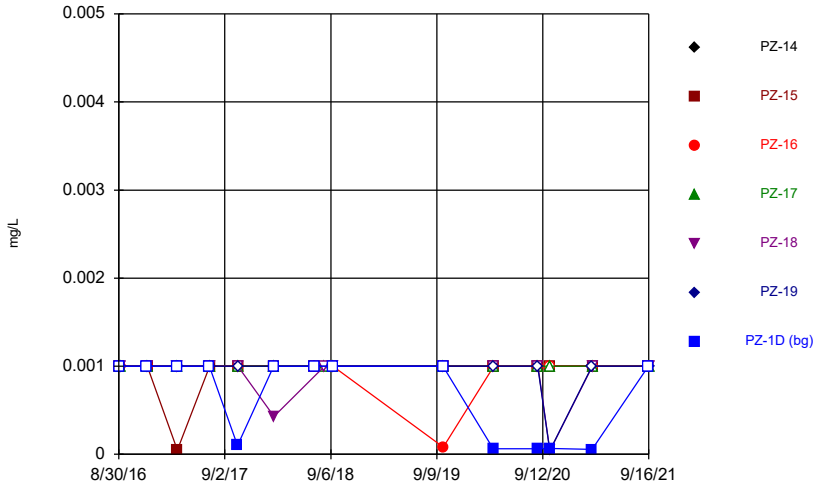


Constituent: Fluoride Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

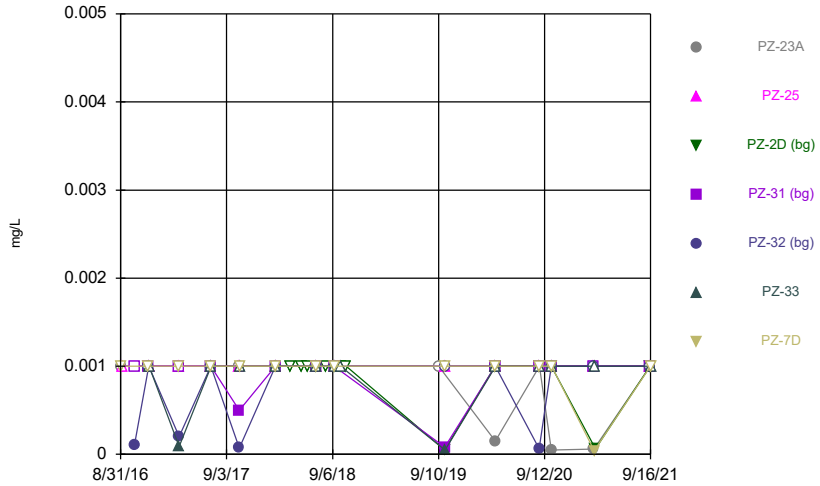
Time Series



Constituent: Lead Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

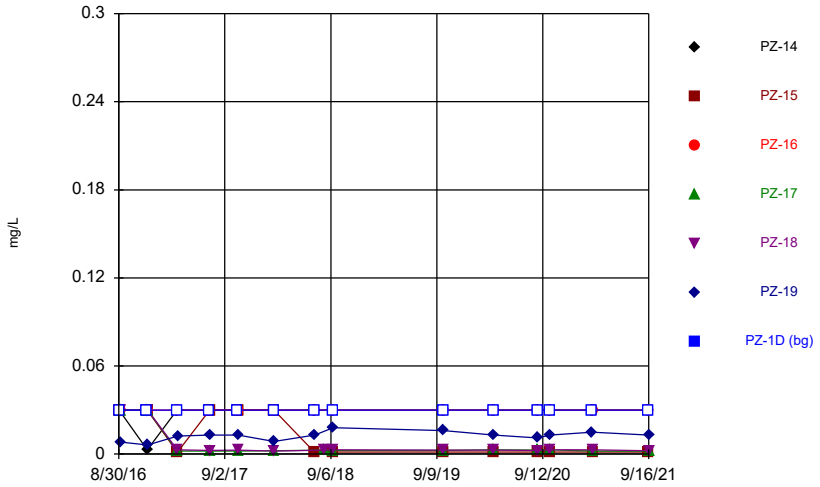
Time Series



Constituent: Lead Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

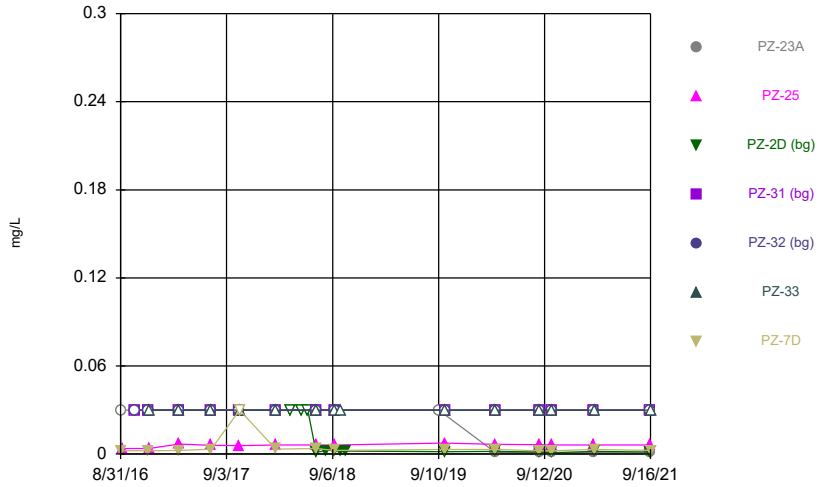
Time Series



Constituent: Lithium Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

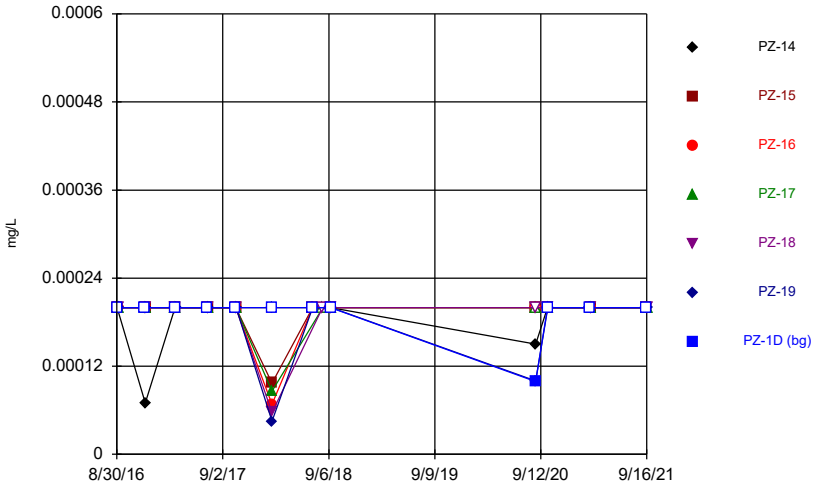
Time Series



Constituent: Lithium Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

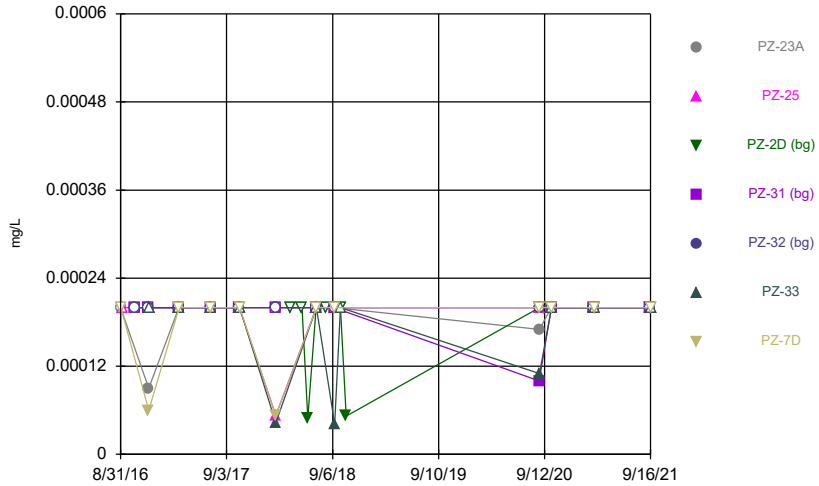
Time Series



Constituent: Mercury Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

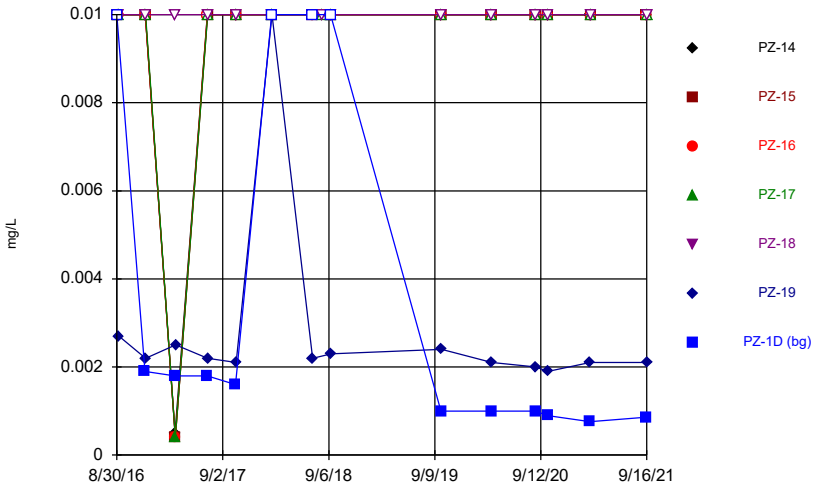
Time Series



Constituent: Mercury Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

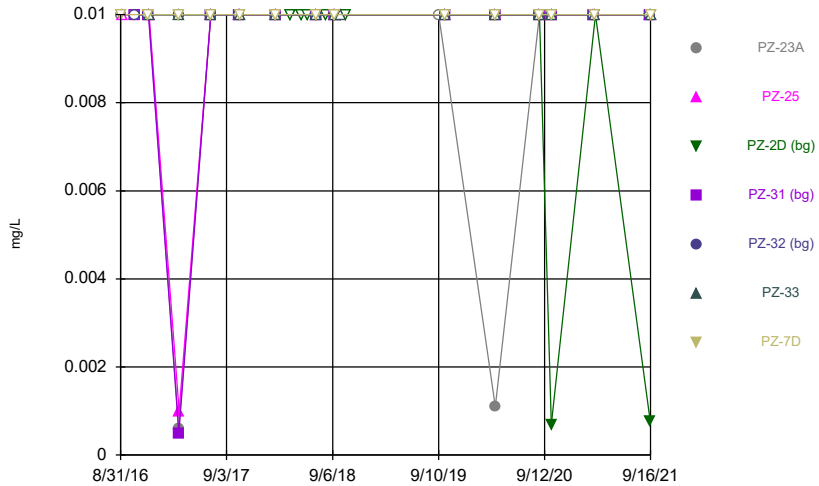
Time Series



Constituent: Molybdenum Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

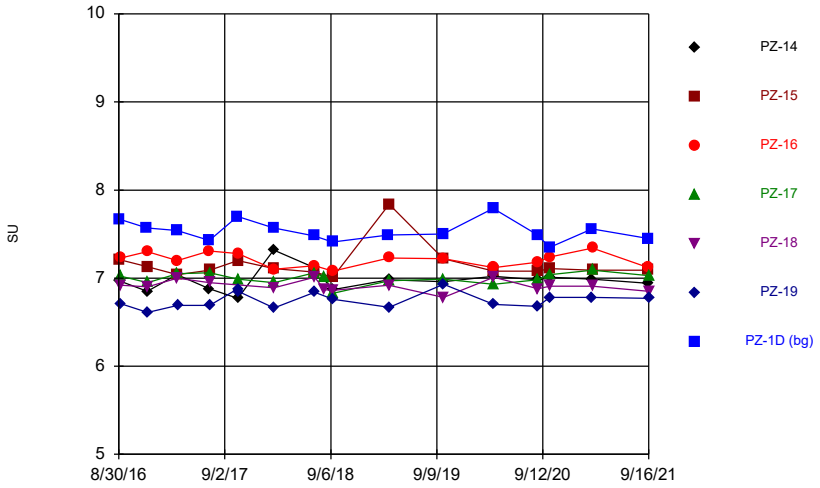
Time Series



Constituent: Molybdenum Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Time Series

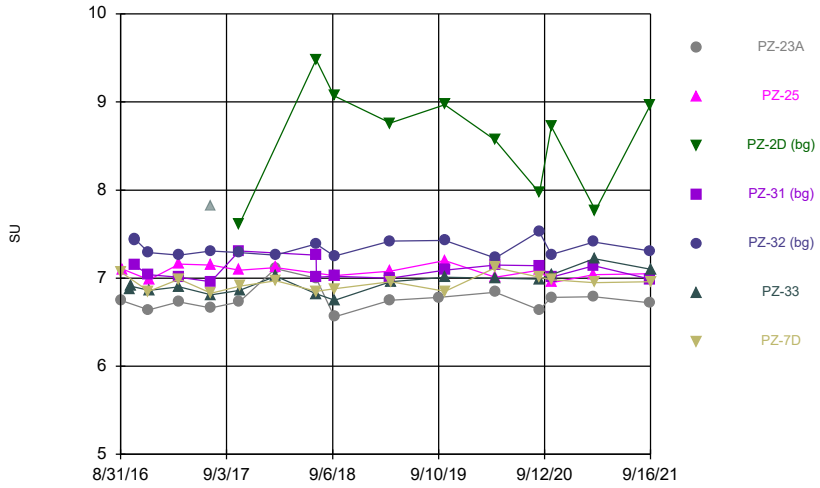


Constituent: pH Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Time Series

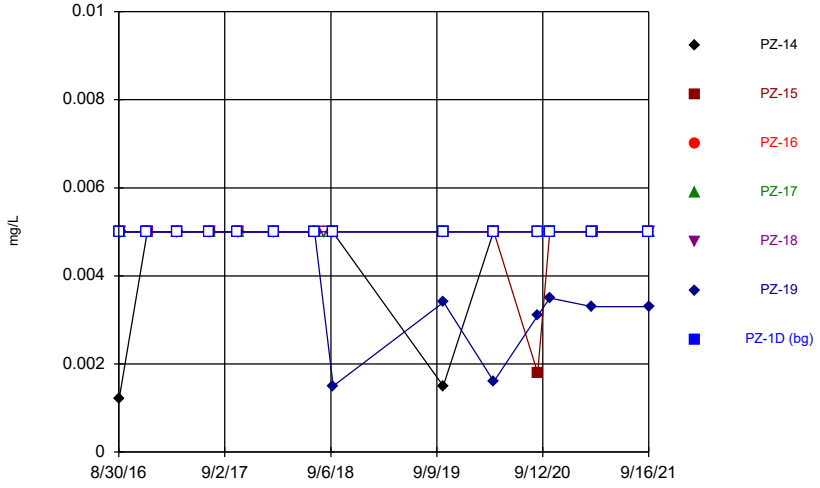


Constituent: pH Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

Time Series

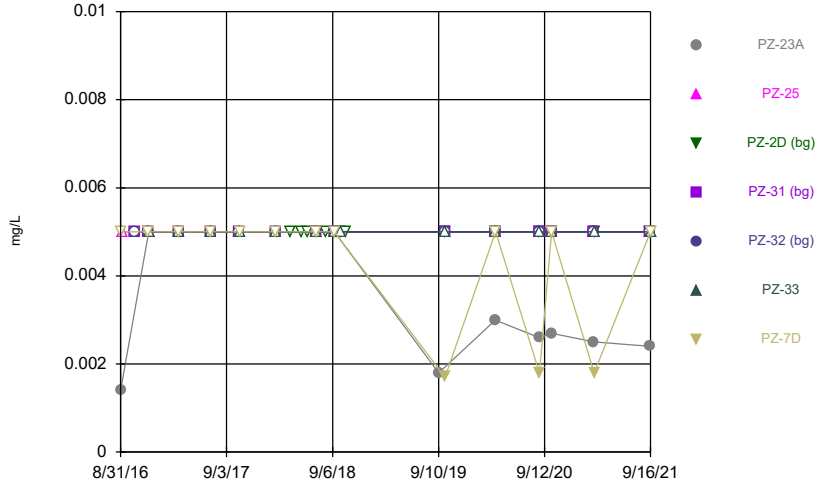


Constituent: Selenium Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

Time Series

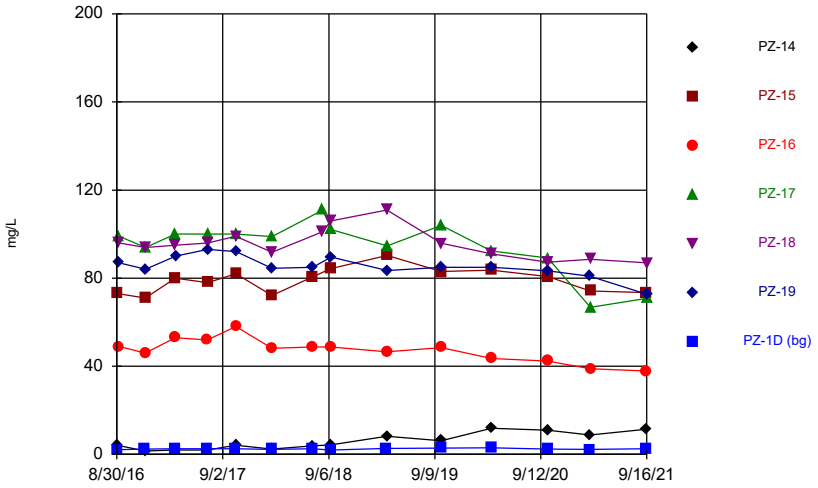


Constituent: Selenium Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Time Series

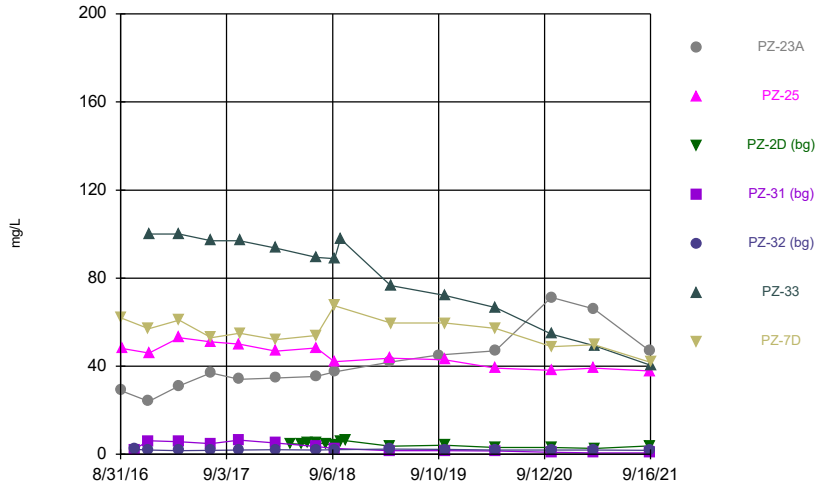


Constituent: Sulfate Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Time Series

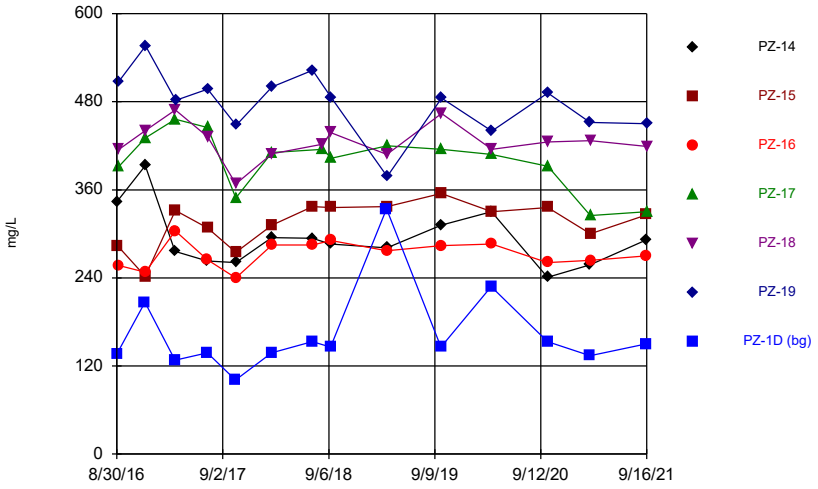


Constituent: Sulfate Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Time Series

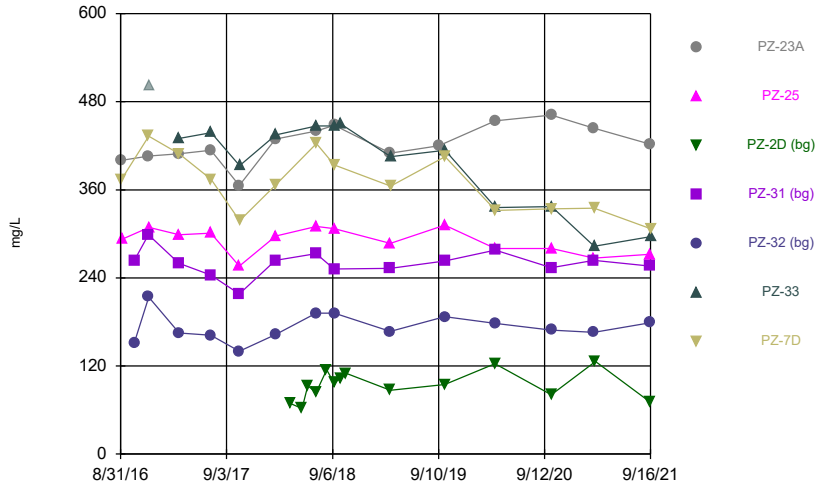


Constituent: TDS Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Time Series

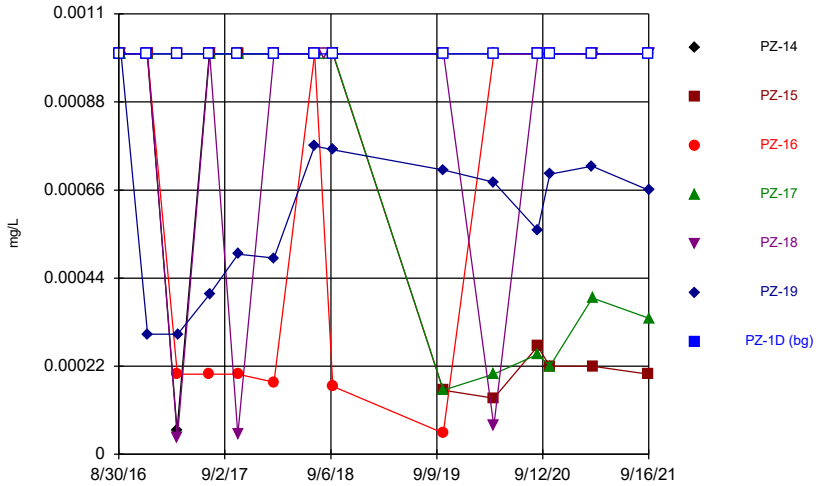


Constituent: TDS Analysis Run 11/5/2021 1:38 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

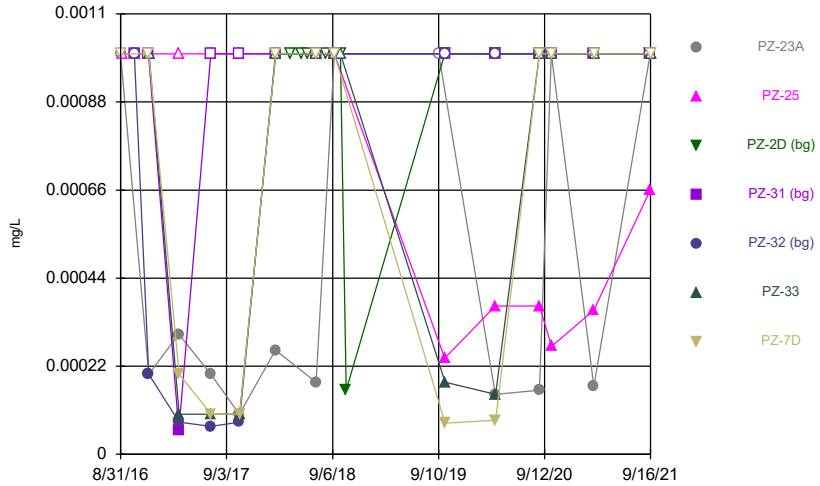
Time Series



Constituent: Thallium Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 11/5/2021 1:38 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							0.0009 (J)
8/31/2016	<0.003						
9/1/2016		0.001 (J)					
9/6/2016			<0.003				
9/7/2016				<0.003	<0.003	<0.003	
12/6/2016							<0.003
12/7/2016	<0.003	<0.003	<0.003				
12/8/2016				<0.003	<0.003	<0.003	
3/21/2017	0.0004 (J)						0.0028 (J)
3/22/2017		<0.003	<0.003	<0.003	<0.003		
3/23/2017						<0.003	
7/11/2017	<0.003		<0.003				0.0035
7/12/2017		<0.003		<0.003	<0.003	<0.003	
10/17/2017							0.0025 (J)
10/18/2017	<0.003	<0.003	<0.003	<0.003	<0.003		
10/19/2017						<0.003	
2/20/2018	<0.003						0.00094 (J)
2/21/2018		<0.003	<0.003	<0.003	<0.003	<0.003	
7/11/2018	<0.003						0.0019 (J)
7/12/2018		<0.003	<0.003			<0.003	
8/15/2018					<0.003		
8/16/2018				<0.003			
9/12/2018	<0.003						0.0019 (J)
9/13/2018		<0.003	<0.003		<0.003		
9/14/2018				<0.003		<0.003	
10/1/2019							0.00076 (X)
10/2/2019	<0.003	<0.003	<0.003	<0.003			
10/3/2019					<0.003	0.00044 (X)	
3/24/2020							0.00055 (J)
3/25/2020	<0.003			0.00094 (J)			
3/26/2020		<0.003	<0.003		0.0018 (J)	<0.003	
8/25/2020							0.0012 (J)
8/26/2020	<0.003	0.00062 (J)	0.00037 (J)	0.00061 (J)		<0.003	
8/27/2020					<0.003		
10/6/2020	<0.003		<0.003				0.0021 (J)
10/7/2020		<0.003		<0.003	0.0014 (J)	<0.003	
3/3/2021	<0.003					<0.003	0.00093 (J)
3/4/2021		<0.003	<0.003	0.00055 (J)	<0.003		
9/14/2021							<0.003
9/15/2021	<0.003	<0.003	<0.003				
9/16/2021				<0.003	<0.003	<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.003						
9/1/2016							<0.003
9/8/2016		<0.003					
10/18/2016				0.0018 (J)	<0.003		
12/6/2016				<0.003			
12/7/2016	<0.003				<0.003		<0.003
12/8/2016		<0.003				<0.003	
3/21/2017	<0.003			<0.003			
3/22/2017		<0.003					<0.003
3/23/2017					<0.003	<0.003	
7/11/2017	<0.003	<0.003		<0.003	<0.003		
7/12/2017						<0.003	<0.003
10/17/2017				<0.003	<0.003		
10/18/2017	<0.003	<0.003					
10/19/2017						<0.003	<0.003
2/20/2018	<0.003			<0.003	<0.003		
2/21/2018		<0.003				<0.003	<0.003
4/12/2018			<0.003				
5/23/2018			0.0017 (J)				
6/13/2018			0.0018 (J)				
7/11/2018	<0.003		0.0024 (J)	<0.003	<0.003		
7/12/2018		<0.003				<0.003	<0.003
8/17/2018			0.00082 (J)				
9/12/2018			<0.003	<0.003			
9/13/2018	<0.003	<0.003			<0.003		<0.003
9/14/2018						<0.003	
10/4/2018			<0.003			<0.003	
10/24/2018			0.00087 (J)				
9/10/2019	<0.003						
10/1/2019					<0.003		
10/2/2019		<0.003	0.00042 (X)	<0.003			
10/3/2019						<0.003	0.00029 (X)
3/24/2020			0.00037 (J)				
3/25/2020	<0.003	<0.003		<0.003	<0.003		
3/26/2020						<0.003	0.00042 (J)
8/25/2020				<0.003	<0.003		
8/26/2020	0.00038 (J)	<0.003	0.0008 (J)			<0.003	0.00031 (J)
10/6/2020	<0.003		0.0013 (J)	0.00045 (J)	<0.003		
10/7/2020		<0.003				0.00037 (J)	<0.003
3/3/2021	0.0017 (J)	<0.003		<0.003	<0.003		
3/4/2021						<0.003	<0.003
3/8/2021			0.0003 (J)				
9/14/2021			0.0011 (J)		0.0012 (J)		
9/15/2021	<0.003	<0.003		<0.003			
9/16/2021						<0.003	<0.003

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							<0.005
8/31/2016	<0.005						
9/1/2016		<0.005					
9/6/2016			<0.005				
9/7/2016				<0.005	<0.005	<0.005	
12/6/2016							<0.005
12/7/2016	<0.005	<0.005	<0.005				
12/8/2016				<0.005	<0.005	<0.005	
3/21/2017	<0.005						<0.005
3/22/2017		0.0011 (J)	<0.005	0.0007 (J)	<0.005		
3/23/2017						0.0007 (J)	
7/11/2017	<0.005		<0.005				<0.005
7/12/2017		0.0006 (J)		<0.005	<0.005	<0.005	
10/17/2017							<0.005
10/18/2017	<0.005	<0.005	<0.005	<0.005	<0.005		
10/19/2017						<0.005	
2/20/2018	<0.005						<0.005
2/21/2018		0.00089 (J)	<0.005	0.00072 (J)	<0.005	<0.005	
7/11/2018	<0.005						<0.005
7/12/2018		<0.005	<0.005			<0.005	
8/15/2018					<0.005		
8/16/2018				0.0007 (J)			
9/12/2018	<0.005						<0.005
9/13/2018		<0.005	<0.005		<0.005		
9/14/2018				<0.005		<0.005	
10/1/2019							<0.005
10/2/2019	0.00083 (X)	<0.005	<0.005	<0.005			
10/3/2019					<0.005	<0.005	
3/24/2020							<0.005
3/25/2020	<0.005			<0.005			
3/26/2020		<0.005	<0.005		<0.005	<0.005	
8/25/2020							<0.005
8/26/2020	<0.005	<0.005	<0.005	<0.005		<0.005	
8/27/2020					<0.005		
9/14/2021							<0.005
9/15/2021	<0.005	<0.005	<0.005				
9/16/2021				<0.005	<0.005	<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.005						
9/1/2016							<0.005
9/8/2016		0.0017 (J)					
10/18/2016				<0.005	<0.005		
12/6/2016				<0.005			
12/7/2016	<0.005				0.002 (J)		<0.005
12/8/2016		<0.005				<0.005	
3/21/2017	<0.005			<0.005			
3/22/2017		0.001 (J)					<0.005
3/23/2017					<0.005	0.0007 (J)	
7/11/2017	<0.005	<0.005		<0.005	<0.005		
7/12/2017						<0.005	<0.005
10/17/2017				<0.005	<0.005		
10/18/2017	<0.005	<0.005					
10/19/2017						<0.005	<0.005
2/20/2018	<0.005			<0.005	<0.005		
2/21/2018		0.00071 (J)				0.00094 (J)	<0.005
4/12/2018			0.00064 (J)				
5/23/2018			<0.005				
6/13/2018			0.0007 (J)				
7/11/2018	<0.005		<0.005	<0.005	<0.005		
7/12/2018		<0.005				<0.005	<0.005
8/17/2018			0.00062 (J)				
9/12/2018			<0.005	<0.005			
9/13/2018	<0.005	<0.005			<0.005		<0.005
9/14/2018						<0.005	
10/4/2018			<0.005			<0.005	
10/24/2018			0.00068 (J)				
9/10/2019	0.00036 (X)						
10/1/2019					<0.005		
10/2/2019		0.00063 (X)	0.0022 (X)	<0.005			
10/3/2019						<0.005	<0.005
3/24/2020			<0.005				
3/25/2020	<0.005	<0.005		<0.005	<0.005		
3/26/2020						<0.005	<0.005
8/25/2020				<0.005	<0.005		
8/26/2020	<0.005	<0.005	<0.005			<0.005	<0.005
9/14/2021			0.0014 (J)		<0.005		
9/15/2021	<0.005	<0.005		<0.005			
9/16/2021						<0.005	<0.005

Time Series

Constituent: Barium (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							0.0335
8/31/2016	0.0253						
9/1/2016		0.103					
9/6/2016			0.0794				
9/7/2016				0.0823	0.0717	0.067	
12/6/2016							0.0311
12/7/2016	0.065	0.0781	0.0689				
12/8/2016				0.0668	0.0513	0.0522	
3/21/2017	0.0379						0.0305
3/22/2017		0.0589	0.0423	0.0821	0.0273		
3/23/2017						0.0591	
7/11/2017	0.036		0.0467				0.0305
7/12/2017		0.0613		0.0805	0.0269	0.0604	
10/17/2017							0.0255
10/18/2017	0.0247	0.0617	0.0446	0.0776	0.0258		
10/19/2017						0.0542	
2/20/2018	0.03						0.027
2/21/2018		0.076	0.046	0.073	0.029	0.058	
7/11/2018	0.027						0.032
7/12/2018		0.056	0.043			0.057	
8/15/2018					0.027		
8/16/2018				0.081			
9/12/2018	0.022						0.021
9/13/2018		0.048	0.038		0.023		
9/14/2018				0.081		0.058	
10/1/2019							0.016
10/2/2019	0.017	0.049	0.038	0.074			
10/3/2019					0.025	0.057	
3/24/2020							0.015
3/25/2020	0.021			0.077			
3/26/2020		0.048	0.034		0.023	0.052	
8/25/2020							0.014
8/26/2020	0.016	0.053	0.036	0.077		0.049	
8/27/2020					0.023		
10/6/2020	0.016		0.034				0.015
10/7/2020		0.049		0.074	0.023	0.054	
3/3/2021	0.017					0.055	0.015
3/4/2021		0.047	0.035	0.071	0.023		
9/14/2021							0.013
9/15/2021	0.014	0.045	0.032				
9/16/2021				0.064	0.022	0.053	

Time Series

Constituent: Barium (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	0.0407						
9/1/2016							0.0117
9/8/2016		0.102					
10/18/2016				0.0257	0.0248		
12/6/2016				0.113			
12/7/2016	0.0581				0.0506		0.0133
12/8/2016		0.102				0.162 (o)	
3/21/2017	0.0678			0.0226			
3/22/2017		0.0951					0.0114
3/23/2017					0.0175	0.0753	
7/11/2017	0.0574	0.102		0.0139	0.0161		
7/12/2017						0.0756	0.0097 (J)
10/17/2017				0.0103	0.0158		
10/18/2017	0.0351	0.0997					
10/19/2017						0.0681	0.0091 (J)
2/20/2018	0.05			0.015	0.015		
2/21/2018		0.11				0.085	0.0086 (J)
4/12/2018			<0.01				
5/23/2018			0.0042 (J)				
6/13/2018			0.012				
7/11/2018	0.051		0.0056 (J)	0.011	0.016		
7/12/2018		0.1				0.076	0.0093 (J)
8/17/2018			0.0069 (J)				
9/12/2018			0.011	0.0087 (J)			
9/13/2018	0.038	0.1			0.014		0.0078 (J)
9/14/2018						0.071	
10/4/2018			0.0066 (J)			0.072	
10/24/2018			0.0059 (J)				
9/10/2019	0.029						
10/1/2019					0.015		
10/2/2019		0.11	0.0046 (X)	0.0067 (X)			
10/3/2019						0.057	0.007 (X)
3/24/2020			0.0046 (J)				
3/25/2020	0.048	0.11		0.0082 (J)	0.015		
3/26/2020						0.057	0.0072 (J)
8/25/2020				0.0071 (J)	0.015		
8/26/2020	0.039	0.1	0.0051 (J)			0.051	0.007 (J)
10/6/2020	0.037		0.0039 (J)	0.0075 (J)	0.015		
10/7/2020		0.11				0.048	0.0061 (J)
3/3/2021	0.039	0.12		0.0069	0.013		
3/4/2021						0.047	0.0061
3/8/2021			0.0065				
9/14/2021			0.0041 (J)		0.014		
9/15/2021	0.037	0.11		0.0066			
9/16/2021						0.039	0.0062

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							<0.0005
8/31/2016	<0.0005						
9/1/2016		<0.0005					
9/6/2016			<0.0005				
9/7/2016				<0.0005	<0.0005	<0.0005	
12/6/2016							<0.0005
12/7/2016	<0.0005	<0.0005	<0.0005				
12/8/2016				<0.0005	<0.0005	<0.0005	
3/21/2017	<0.0005						<0.0005
3/22/2017		<0.0005	<0.0005	<0.0005	<0.0005		
3/23/2017						<0.0005	
7/11/2017	<0.0005		<0.0005				<0.0005
7/12/2017		<0.0005		<0.0005	<0.0005	<0.0005	
10/17/2017							<0.0005
10/18/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
10/19/2017						<0.0005	
2/20/2018	<0.0005						<0.0005
2/21/2018		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
7/11/2018	<0.0005						<0.0005
7/12/2018		<0.0005	<0.0005			<0.0005	
8/15/2018					<0.0005		
8/16/2018				<0.0005			
9/12/2018	<0.0005						6.1E-05 (J)
9/13/2018		<0.0005	<0.0005		<0.0005		
9/14/2018				<0.0005		<0.0005	
8/25/2020							<0.0005
8/26/2020	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	
8/27/2020					<0.0005		
9/14/2021							<0.0005
9/15/2021	<0.0005	<0.0005	<0.0005				
9/16/2021				<0.0005	<0.0005	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.0005						
9/1/2016							<0.0005
9/8/2016		<0.0005					
10/18/2016				<0.0005	<0.0005		
12/6/2016				<0.0005			
12/7/2016	<0.0005				<0.0005		<0.0005
12/8/2016		<0.0005				<0.0005	
3/21/2017	<0.0005			<0.0005			
3/22/2017		<0.0005					<0.0005
3/23/2017					<0.0005	<0.0005	
7/11/2017	<0.0005	<0.0005		<0.0005	<0.0005		
7/12/2017						<0.0005	<0.0005
10/17/2017				<0.0005	<0.0005		
10/18/2017	<0.0005	<0.0005					
10/19/2017						<0.0005	<0.0005
2/20/2018	<0.0005			<0.0005	<0.0005		
2/21/2018		<0.0005				<0.0005	<0.0005
4/12/2018			<0.0005				
5/23/2018			<0.0005				
6/13/2018			<0.0005				
7/11/2018	<0.0005		<0.0005	<0.0005	<0.0005		
7/12/2018		<0.0005				<0.0005	<0.0005
8/17/2018			<0.0005				
9/12/2018			<0.0005	<0.0005			
9/13/2018	<0.0005	<0.0005			<0.0005		<0.0005
9/14/2018						<0.0005	
10/4/2018			<0.0005			<0.0005	
10/24/2018			6E-05 (J)				
8/25/2020				<0.0005	<0.0005		
8/26/2020	<0.0005	<0.0005	<0.0005			<0.0005	<0.0005
9/14/2021			<0.0005		<0.0005		
9/15/2021	<0.0005	<0.0005		<0.0005			
9/16/2021						<0.0005	<0.0005

Time Series

Constituent: Boron (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							0.0132 (J)
8/31/2016	0.0285 (J)						
9/1/2016		0.215					
9/6/2016			0.17				
9/7/2016				0.276	0.355	0.573	
12/6/2016							0.0096 (J)
12/7/2016	0.0292 (J)	0.224	0.173				
12/8/2016				0.303	0.351	0.588	
3/21/2017	0.0198 (J)						0.0082 (J)
3/22/2017		0.205	0.218	0.342	0.405		
3/23/2017						0.703	
7/11/2017	0.0137 (J)		0.18				0.0067 (J)
7/12/2017		0.184		0.278	0.35	0.598	
10/17/2017							0.0083 (J)
10/18/2017	0.0212 (J)	0.197	0.195	0.277	0.37		
10/19/2017						0.66	
2/20/2018	0.026 (J)						0.024 (J)
2/21/2018		0.21	0.21	0.29	0.33	0.6	
7/11/2018	0.026 (J)						0.017 (J)
7/12/2018		0.23	0.21			0.64	
8/15/2018					0.37		
8/16/2018				0.33			
9/12/2018	0.02 (J)						0.012 (J)
9/13/2018		0.22	0.21		0.37		
9/14/2018				0.31		0.57	
3/26/2019							0.0082
3/27/2019	0.023		0.21		0.41		
3/28/2019		0.22		0.34		0.7	
10/1/2019							0.0064 (X)
10/2/2019	0.021 (X)	0.17	0.19	0.28			
10/3/2019					0.35	0.52	
3/24/2020							0.013 (J)
3/25/2020	0.027 (J)			0.33			
3/26/2020		0.21	0.19		0.36	0.6	
10/6/2020	0.026 (J)		0.19				0.015 (J)
10/7/2020		0.19		0.3	0.39	0.52	
3/3/2021	0.028 (J)					0.5	0.01 (J)
3/4/2021		0.16	0.2	0.22	0.37		
9/14/2021							<0.04
9/15/2021	0.022 (J)	0.16	0.16				
9/16/2021				0.22	0.31	0.46	

Time Series

Constituent: Boron (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	0.166						
9/1/2016							0.379
9/8/2016		0.204					
10/5/2016						0.404	
10/10/2016						0.401	
10/18/2016				0.0174 (J)	0.0156 (J)		
12/6/2016				0.0133 (J)			
12/7/2016	0.182				0.0157 (J)		0.394
12/8/2016		0.216				0.375	
3/21/2017	0.172			0.0103 (J)			
3/22/2017		0.247					0.365
3/23/2017					0.0103 (J)	0.396	
7/11/2017	0.149	0.194		<0.04	<0.04		
7/12/2017						0.343	0.267
10/17/2017				0.0116 (J)	0.0142 (J)		
10/18/2017	0.158	0.186					
10/19/2017						0.413	0.326
2/20/2018	0.16			0.046 (J)	0.011 (J)		
2/21/2018		0.22				0.36	0.29
4/12/2018			0.016 (J)				
5/23/2018			0.018 (J)				
6/13/2018			0.014 (J)				
7/11/2018	0.17		0.017 (J)	0.014 (J)	0.014 (J)		
7/12/2018		0.22				0.41	0.32
8/17/2018			0.015 (J)				
9/12/2018			0.013 (J)	0.0098 (J)			
9/13/2018	0.16	0.2			0.013 (J)		0.31
9/14/2018						0.38	
10/4/2018			0.016 (J)			0.39	
10/24/2018			0.018 (J)				
3/26/2019				0.0076			
3/27/2019	0.18	0.22	0.016		0.012		
3/28/2019						0.39	0.33
9/10/2019	0.15						
10/1/2019					0.011 (X)		
10/2/2019		0.21	0.011 (X)	0.0084 (X)			
10/3/2019						0.36	0.24
3/24/2020			0.015 (J)				
3/25/2020	0.19	0.21		0.011 (J)	0.016 (J)		
3/26/2020						0.38	0.24
10/6/2020	0.16		0.018 (J)	0.011 (J)	0.015 (J)		
10/7/2020		0.18				0.35	0.2
3/3/2021	0.16	0.2		0.0087 (J)	0.022 (J)		
3/4/2021						0.34	0.2
3/8/2021			0.013 (J)				
9/14/2021			0.011 (J)		0.012 (J)		
9/15/2021	0.15	0.17		<0.04			
9/16/2021						0.31	0.18

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							<0.0005
8/31/2016	<0.0005						
9/1/2016		<0.0005					
9/6/2016			<0.0005				
9/7/2016				<0.0005	<0.0005	<0.0005	
12/6/2016							<0.0005
12/7/2016	<0.0005	<0.0005	<0.0005				
12/8/2016				<0.0005	<0.0005	<0.0005	
3/21/2017	<0.0005						<0.0005
3/22/2017		<0.0005	<0.0005	<0.0005	<0.0005		
3/23/2017						<0.0005	
7/11/2017	<0.0005		<0.0005				<0.0005
7/12/2017		<0.0005		<0.0005	<0.0005	<0.0005	
10/17/2017							<0.0005
10/18/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
10/19/2017						<0.0005	
2/20/2018	<0.0005						<0.0005
2/21/2018		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
7/11/2018	<0.0005						<0.0005
7/12/2018		<0.0005	<0.0005			<0.0005	
8/15/2018					<0.0005		
8/16/2018				<0.0005			
9/12/2018	<0.0005						<0.0005
9/13/2018		<0.0005	<0.0005		<0.0005		
9/14/2018				<0.0005		<0.0005	
8/25/2020							<0.0005
8/26/2020	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	
8/27/2020					<0.0005		
9/14/2021							<0.0005
9/15/2021	<0.0005	<0.0005	<0.0005				
9/16/2021				<0.0005	<0.0005	<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	0.0002 (J)						
9/1/2016							<0.0005
9/8/2016		<0.0005					
10/18/2016				<0.0005	<0.0005		
12/6/2016				<0.0005			
12/7/2016	0.0002 (J)				<0.0005		<0.0005
12/8/2016		<0.0005				<0.0005	
3/21/2017	<0.0005			<0.0005			
3/22/2017		<0.0005					<0.0005
3/23/2017					<0.0005	0.0001 (J)	
7/11/2017	<0.0005	<0.0005		<0.0005	<0.0005		
7/12/2017						<0.0005	<0.0005
10/17/2017				<0.0005	<0.0005		
10/18/2017	<0.0005	<0.0005					
10/19/2017						<0.0005	<0.0005
2/20/2018	<0.0005			<0.0005	<0.0005		
2/21/2018		<0.0005				<0.0005	<0.0005
4/12/2018			<0.0005				
5/23/2018			<0.0005				
6/13/2018			<0.0005				
7/11/2018	<0.0005		<0.0005	<0.0005	<0.0005		
7/12/2018		<0.0005				<0.0005	<0.0005
8/17/2018			<0.0005				
9/12/2018			<0.0005	<0.0005			
9/13/2018	<0.0005	<0.0005			<0.0005		<0.0005
9/14/2018						<0.0005	
10/4/2018			<0.0005			<0.0005	
10/24/2018			<0.0005				
8/25/2020				<0.0005	<0.0005		
8/26/2020	<0.0005	<0.0005	<0.0005			<0.0005	<0.0005
9/14/2021			<0.0005		<0.0005		
9/15/2021	<0.0005	<0.0005		<0.0005			
9/16/2021						<0.0005	<0.0005

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							40.4
8/31/2016	92.9						
9/1/2016		74.8					
9/6/2016			74.6				
9/7/2016				100	112	138	
12/6/2016							43.3
12/7/2016	93.1	74	68.9				
12/8/2016				102	113	135	
3/21/2017	95						44.1
3/22/2017		99.3	77.8	113	122		
3/23/2017						137	
7/11/2017	97.1		77.3				47.4
7/12/2017		91.4		110	129	145	
10/17/2017							48.7
10/18/2017	100	92	84.7	122	125		
10/19/2017						140	
2/20/2018	93.1						46.8
2/21/2018		89	81.8	107	118	145	
7/11/2018	111						65.3 (o)
7/12/2018		94.5	85.2			140	
8/15/2018					123		
8/16/2018				113			
9/12/2018	99.3						46.6
9/13/2018		90.8	80.2		123		
9/14/2018				108		124	
3/26/2019							43.3
3/27/2019	105		90.5		134		
3/28/2019		100		123		164	
10/1/2019							46.8
10/2/2019	103	101	89.1	115			
10/3/2019					139	125	
3/24/2020							48
3/25/2020	105			121			
3/26/2020		103	89.8		138	158	
10/6/2020	111		84				50.5
10/7/2020		93.5		112	129	144	
3/3/2021	114					142	54.7
3/4/2021		107	90.9	113	138		
9/14/2021							51
9/15/2021	106	94	91				
9/16/2021				102	135	137	

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	132						
9/1/2016							101
9/8/2016		85.2					
10/18/2016				88.3	57.2		
12/6/2016				83.4			
12/7/2016	125				52.8		103
12/8/2016		84.5				117	
3/21/2017	138			94			
3/22/2017		85.3					111
3/23/2017					59.1	122	
7/11/2017	139	93		86	59.7		
7/12/2017						124	119
10/17/2017				91.6	64.9		
10/18/2017	144	87.6					
10/19/2017						118	107
2/20/2018	142			86.5	64.1		
2/21/2018		93.9				122	118
4/12/2018			<25				
5/23/2018			17.6 (J)				
6/13/2018			14.3				
7/11/2018	159		15.6	95.4	60.4		
7/12/2018		87.1				129	121
8/17/2018			27				
9/12/2018			26.9	86			
9/13/2018	136	85.8			58.7		116
9/14/2018						123	
10/4/2018			25			126	
10/24/2018			23.8				
3/26/2019				87.3			
3/27/2019	152	95.2	26.1		54.6		
3/28/2019						117	124
9/10/2019	137						
10/1/2019					64.3		
10/2/2019		92.3	21	95.5			
10/3/2019						110	127
3/24/2020			26.5				
3/25/2020	157	97.5		95.8	66.6		
3/26/2020						122	122
10/6/2020	144		22.7	98.8	62.8		
10/7/2020		84.2				94.7	109
3/3/2021	154	96.8		104	64.8 (M1)		
3/4/2021						106	122
3/8/2021			41.7				
9/14/2021			13.4		67.8		
9/15/2021	147	84.4		101			
9/16/2021						92	109

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							3.1
8/31/2016	4.9						
9/1/2016		7					
9/6/2016			7.9				
9/7/2016				7.7	6.9	6.8	
12/6/2016							3.4
12/7/2016	4.8	7	7.6				
12/8/2016				7.2	6.8	6.6	
3/21/2017	4.9						2.9
3/22/2017		7.4	7.7	7.3	6.8		
3/23/2017						6.6	
7/11/2017	5		8.1				3.4
7/12/2017		8		7.4	6.7	6.6	
10/17/2017							3.3
10/18/2017	5.1	7.8	8.2	7.6	6.8		
10/19/2017						6.5	
2/20/2018	5.1						3.3
2/21/2018		7.2	7.3	7.4	7.1	7.6	
7/11/2018	4.9						2.9
7/12/2018		7.5	7.2			6.3	
8/15/2018					6.7		
8/16/2018				7.5			
9/12/2018	4.8						2.8
9/13/2018		6.8	7.3		6.7		
9/14/2018				7.7		6.1	
3/26/2019							3.3
3/27/2019	5.2		7.3		6.5		
3/28/2019		7.4		7.3		6.4	
10/1/2019							3.6
10/2/2019	5.4	8	7.7	7.9			
10/3/2019					7	5.6	
3/24/2020							2.8
3/25/2020	4.2			6.1			
3/26/2020		7	7		5.7	5.4	
10/6/2020	4.4		6.4				3
10/7/2020		6.6		5.7	5	4.5	
3/3/2021	4.2					4	2.8
3/4/2021		6.3	5.9	4.2	5.1		
9/14/2021							2.9
9/15/2021	3.9	5.8	5.6				
9/16/2021				4.2	4.7	3.5	

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	5.1						
9/1/2016							7.4
9/8/2016		4					
10/18/2016				4.5	3.5		
12/6/2016				5			
12/7/2016	5.2				3.2		7.6
12/8/2016		3.6				6.9	
3/21/2017	5.5			4.3			
3/22/2017		3.3					7.2
3/23/2017					2.9	6.2	
7/11/2017	5.7	3		4.7	3.1		
7/12/2017						6	7.3
10/17/2017				4.6	3		
10/18/2017	5.1	2.9					
10/19/2017						6.4	7.4
2/20/2018	5.5			4.4	3		
2/21/2018		2.9				6.9	7.6
4/12/2018			2.6				
5/23/2018			2.5				
6/13/2018			2.5				
7/11/2018	5.1		2.6	4	2.8		
7/12/2018		2.6				7.3	7.1
8/17/2018			2.6				
9/12/2018			2.3	3.7			
9/13/2018	5	2.3			2.2		6.6
9/14/2018						7.3	
10/4/2018			2.7			7	
10/24/2018			2.8				
3/26/2019				3.8			
3/27/2019	4.7	2.4	2.5		3.1		
3/28/2019						4.8	6.4
9/10/2019	3.8						
10/1/2019					3.1		
10/2/2019		2.6	2.7	4.3			
10/3/2019						4.1	5.9
3/24/2020			2.2				
3/25/2020	6.4	1.6		3	2.2		
3/26/2020						2.9	4.8
10/6/2020	7		2.3	3.4	2.3		
10/7/2020		1.8				2	3.9
3/3/2021	4.7	1.6		3.1	2.2		
3/4/2021						1.8	4
3/8/2021			2.4				
9/14/2021			2.5		2.2		
9/15/2021	2.8	1.8		2.8			
9/16/2021						1.5	3.3

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							0.0039 (J)
8/31/2016	<0.005						
9/1/2016		<0.005					
9/6/2016			<0.005				
9/7/2016				<0.005	<0.005	<0.005	
12/6/2016							0.0047 (J)
12/7/2016	<0.005	<0.005	<0.005				
12/8/2016				<0.005	<0.005	<0.005	
3/21/2017	<0.005						0.0047 (J)
3/22/2017		<0.005	0.0008 (J)	<0.005	<0.005		
3/23/2017						<0.005	
7/11/2017	<0.005		<0.005				0.0054 (J)
7/12/2017		<0.005		<0.005	<0.005	<0.005	
10/17/2017							0.0053 (J)
10/18/2017	<0.005	<0.005	<0.005	<0.005	<0.005		
10/19/2017						<0.005	
2/20/2018	<0.005						0.0029 (J)
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.005	
7/11/2018	<0.005						0.0057 (J)
7/12/2018		<0.005	<0.005			<0.005	
8/15/2018					<0.005		
8/16/2018				<0.005			
9/12/2018	<0.005						0.0033 (J)
9/13/2018		<0.005	<0.005		<0.005		
9/14/2018				<0.005		<0.005	
10/1/2019							0.0022 (X)
10/2/2019	<0.005	<0.005	0.00044 (X)	<0.005			
10/3/2019					<0.005	<0.005	
3/24/2020							0.0036 (J)
3/25/2020	0.0013 (J)			<0.005			
3/26/2020		<0.005	0.0013 (J)		0.00056 (J)	0.00073 (J)	
8/25/2020							0.003 (J)
8/26/2020	0.0011 (J)	<0.005	0.00087 (J)	<0.005		<0.005	
8/27/2020					<0.005		
10/6/2020	0.00098 (J)		0.0011 (J)				0.0021 (J)
10/7/2020		<0.005		<0.005	<0.005	<0.005	
3/3/2021	0.00097 (J)					<0.005	0.0018 (J)
3/4/2021		<0.005	0.0012 (J)	<0.005	<0.005		
9/14/2021							0.002 (J)
9/15/2021	0.0014 (J)	<0.005	0.0011 (J)				
9/16/2021				<0.005	<0.005	<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.005						
9/1/2016							<0.005
9/8/2016		<0.005					
10/18/2016				<0.005	<0.005		
12/6/2016				<0.005			
12/7/2016	<0.005				<0.005		0.003 (J)
12/8/2016		<0.005				<0.005	
3/21/2017	0.0009 (J)			0.0006 (J)			
3/22/2017		<0.005					0.0005 (J)
3/23/2017					0.0005 (J)	0.0017 (J)	
7/11/2017	0.0016 (J)	<0.005		0.0006 (J)	<0.005		
7/12/2017						<0.005	<0.005
10/17/2017				0.0008 (J)	0.0005 (J)		
10/18/2017	0.0019 (J)	<0.005					
10/19/2017						<0.005	0.0005 (J)
2/20/2018	<0.005			<0.005	<0.005		
2/21/2018		<0.005				<0.005	<0.005
4/12/2018			0.01				
5/23/2018			0.011				
6/13/2018			0.011				
7/11/2018	0.0021 (J)		0.0096 (J)	<0.005	<0.005		
7/12/2018		<0.005				<0.005	<0.005
8/17/2018			0.0078 (J)				
9/12/2018			0.0056 (J)	<0.005			
9/13/2018	0.0022 (J)	<0.005			<0.005		<0.005
9/14/2018						<0.005	
10/4/2018			0.0057 (J)			<0.005	
10/24/2018			0.0058 (J)				
9/10/2019	0.0044 (X)						
10/1/2019					<0.005		
10/2/2019		<0.005	0.0049 (X)	0.00043 (X)			
10/3/2019						<0.005	0.0004 (X)
3/24/2020			0.0047 (J)				
3/25/2020	0.0012 (J)	<0.005		0.0013 (J)	0.00086 (J)		
3/26/2020						<0.005	0.0016 (J)
8/25/2020				0.0011 (J)	0.001 (J)		
8/26/2020	0.0014 (J)	<0.005	0.004 (J)			<0.005	0.0011 (J)
10/6/2020	0.0015 (J)		0.0065 (J)	0.0013 (J)	0.00072 (J)		
10/7/2020		<0.005				<0.005	0.0014 (J)
3/3/2021	0.0015 (J)	<0.005		0.0015 (J)	<0.005		
3/4/2021						<0.005	0.0024 (J)
3/8/2021			0.0028 (J)				
9/14/2021			0.0084		<0.005		
9/15/2021	0.0019 (J)	<0.005		0.0014 (J)			
9/16/2021						<0.005	0.0025 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							<0.005
8/31/2016	<0.005						
9/1/2016		0.0012 (J)					
9/6/2016			0.0005 (J)				
9/7/2016				0.0011 (J)	0.0011 (J)	0.0012 (J)	
12/6/2016							<0.005
12/7/2016	0.002 (J)	0.0005 (J)	<0.005				
12/8/2016				0.0006 (J)	<0.005	0.0009 (J)	
3/21/2017	<0.005						<0.005
3/22/2017		0.0005 (J)	<0.005	0.0006 (J)	<0.005		
3/23/2017						<0.005	
7/11/2017	0.0003 (J)		<0.005				<0.005
7/12/2017		0.0004 (J)		0.0005 (J)	<0.005	<0.005	
10/17/2017							<0.005
10/18/2017	<0.005	0.0004 (J)	<0.005	0.0005 (J)	<0.005		
10/19/2017						<0.005	
2/20/2018	<0.005						<0.005
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.005	
7/11/2018	<0.005						<0.005
7/12/2018		<0.005	<0.005			<0.005	
8/15/2018					<0.005		
8/16/2018				<0.005			
9/12/2018	<0.005						<0.005
9/13/2018		<0.005	<0.005		<0.005		
9/14/2018				<0.005		<0.005	
10/1/2019							<0.005
10/2/2019	<0.005	<0.005	<0.005	<0.005			
10/3/2019					<0.005	<0.005	
3/24/2020							<0.005
3/25/2020	<0.005			0.00032 (J)			
3/26/2020		<0.005	<0.005		<0.005	<0.005	
8/25/2020							<0.005
8/26/2020	<0.005	<0.005	<0.005	<0.005		<0.005	
8/27/2020					<0.005		
10/6/2020	<0.005		<0.005				<0.005
10/7/2020		<0.005		<0.005	<0.005	<0.005	
3/3/2021	<0.005					<0.005	<0.005
3/4/2021		<0.005	<0.005	<0.005	<0.005		
9/14/2021							<0.005
9/15/2021	<0.005	<0.005	<0.005				
9/16/2021				<0.005	<0.005	<0.005	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.005						
9/1/2016							<0.005
9/8/2016		0.0008 (J)					
10/18/2016				<0.005	<0.005		
12/6/2016				0.0018 (J)			
12/7/2016	0.0008 (J)				0.0015 (J)		<0.005
12/8/2016		<0.005				0.0041 (J)	
3/21/2017	<0.005			<0.005			
3/22/2017		0.001 (J)					<0.005
3/23/2017					<0.005	0.0008 (J)	
7/11/2017	<0.005	0.001 (J)		<0.005	<0.005		
7/12/2017						0.0007 (J)	<0.005
10/17/2017				<0.005	<0.005		
10/18/2017	<0.005	0.0011 (J)					
10/19/2017						0.0005 (J)	<0.005
2/20/2018	<0.005			<0.005	<0.005		
2/21/2018		0.00075 (J)				0.0012 (J)	<0.005
4/12/2018			<0.005				
5/23/2018			<0.005				
6/13/2018			<0.005				
7/11/2018	<0.005		<0.005	<0.005	<0.005		
7/12/2018		0.0008 (J)				0.00053 (J)	<0.005
8/17/2018			<0.005				
9/12/2018			<0.005	<0.005			
9/13/2018	<0.005	0.001 (J)			<0.005		<0.005
9/14/2018						<0.005	
10/4/2018			<0.005			<0.005	
10/24/2018			<0.005				
9/10/2019	<0.005						
10/1/2019					<0.005		
10/2/2019		0.0017 (X)	<0.005	<0.005			
10/3/2019						<0.005	<0.005
3/24/2020			<0.005				
3/25/2020	0.0003 (J)	0.0018 (J)		<0.005	<0.005		
3/26/2020						<0.005	<0.005
8/25/2020				<0.005	<0.005		
8/26/2020	0.00058 (J)	0.0016 (J)	<0.005			<0.005	<0.005
10/6/2020	0.00067 (J)		<0.005	<0.005	<0.005		
10/7/2020		0.0014 (J)				<0.005	<0.005
3/3/2021	0.00049 (J)	0.0016 (J)		<0.005	<0.005		
3/4/2021						<0.005	<0.005
3/8/2021			<0.005				
9/14/2021			<0.005		<0.005		
9/15/2021	<0.005	0.002 (J)		<0.005			
9/16/2021						<0.005	<0.005

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							0.503 (U)
8/31/2016	1.77						
9/1/2016		1.19					
9/6/2016			1.12				
9/7/2016				1.06 (U)	1.51	1.22	
12/6/2016							0.302 (U)
12/7/2016	0.672 (U)	1.88	1.37				
12/8/2016				1.3	1.29	1.69	
3/21/2017	0.33 (U)						0.526 (U)
3/22/2017		0.617 (U)	0.435 (U)	0.566 (U)	0.799 (U)		
3/23/2017						1.07	
7/11/2017	0.701 (U)		0.76 (U)				0.676 (U)
7/12/2017		0.674 (U)		0.856 (U)	0.4 (U)	0.849 (U)	
10/17/2017							0.201 (U)
10/18/2017	0.808 (U)	0.844 (U)	0.847 (U)	0.957	0.613 (U)		
10/19/2017						0.398 (U)	
2/20/2018	2.12						1.07 (U)
2/21/2018		0.842 (U)	0.373 (U)	1.4	0.736 (U)	1.03 (U)	
7/11/2018	0.232 (U)						0.825 (U)
7/12/2018		0.552 (U)	0.408 (U)			1.28 (U)	
9/12/2018	0.532 (U)						0.317 (U)
9/13/2018		0.662 (U)	0.472 (U)		0.708 (U)		
9/14/2018				1.16		0.74 (U)	
10/1/2019							0.953 (U)
10/2/2019	0.915 (U)	1 (U)	0.65 (U)	1.34 (U)			
10/3/2019					2.07	1.9	
3/24/2020							2.23
3/25/2020	0.694 (U)			0.385 (U)			
3/26/2020		0.863 (U)	0.522 (U)		1.05	1.66	
8/25/2020							0.777 (U)
8/26/2020	0.115 (U)	0.681 (U)	0.499 (U)	1.62		0.703 (U)	
10/6/2020	0.265 (U)		1.12 (U)				0.996 (U)
10/7/2020		1.22 (U)		0.432 (U)	0.365 (U)	0.893	
3/3/2021	0.328 (U)					0.469 (U)	0.915 (U)
3/4/2021		0.674 (U)	0.404 (U)	0.734 (U)	0.498 (U)		
9/14/2021							0.532 (U)
9/15/2021	0.872 (U)	0.729 (U)	0.721 (U)				
9/16/2021				0.377 (U)	0.681 (U)	1.4	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	1.85						
9/1/2016							0.88 (U)
9/8/2016		1.41					
10/18/2016				0.0311 (U)	0.0333 (U)		
12/6/2016				0.301 (U)			
12/7/2016	0.844 (U)				0.507 (U)		0.179 (U)
12/8/2016		1.39				0.968 (U)	
3/21/2017	0.832 (U)			0.506 (U)			
3/22/2017		0.852 (U)					0.279 (U)
3/23/2017					0.378 (U)	0.444 (U)	
7/11/2017	0.824 (U)	1.04		0.0701 (U)	1.04		
7/12/2017						0.814 (U)	0.125 (U)
10/17/2017				0.412 (U)	0.779 (U)		
10/18/2017	1.19	0.678 (U)					
10/19/2017						0.748 (U)	0.329 (U)
2/20/2018	0.975 (U)			0.81 (U)	0.906 (U)		
2/21/2018		0.863 (U)				1.05 (U)	0.504 (U)
4/12/2018			0.774 (U)				
5/23/2018			0.301 (U)				
6/13/2018			0.508 (U)				
7/11/2018	1.29		1.66	0.749 (U)	0.505 (U)		
7/12/2018		1.42				0.751 (U)	0.188 (U)
9/12/2018			0.217 (U)	0.2 (U)			
9/13/2018	0.765 (U)	0.766 (U)			0.313 (U)		0.0542 (U)
9/14/2018						1.01 (U)	
10/4/2018			1.14			1.05	
10/24/2018			0.441 (U)				
9/10/2019	0.575 (U)						
10/1/2019					1.01 (U)		
10/2/2019		1.48	0.712 (U)	0.0883 (U)			
10/3/2019						1.62 (U)	1.37
3/24/2020			0.898 (U)				
3/25/2020	1.39	0.91 (U)		1.79	0.333 (U)		
3/26/2020						0.473 (U)	0.43 (U)
8/25/2020				0.405 (U)	0.34 (U)		
8/26/2020	0.774 (U)	0.95 (U)				0.782 (U)	0.572 (U)
10/6/2020	1.24 (U)		0.929 (U)	0.276 (U)	0.371 (U)		
10/7/2020		1.01 (U)				0.442 (U)	0.232 (U)
3/3/2021	1.01 (U)	0.545 (U)		0.907 (U)	0.836 (U)		
3/4/2021						1.03 (U)	0.529 (U)
3/8/2021			0.475 (U)				
9/14/2021			0.972 (U)		0.68 (U)		
9/15/2021	0.742 (U)	1.07 (U)		0.0517 (U)			
9/16/2021						0.184 (U)	0.382 (U)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							0.06 (J)
8/31/2016	0.13 (J)						
9/1/2016		0.06 (J)					
9/6/2016			0.09 (J)				
9/7/2016				0.03 (J)	0.12 (J)	0.15 (J)	
12/6/2016							0.06 (J)
12/7/2016	0.07 (J)	0.09 (J)	0.09 (J)				
12/8/2016				0.18 (J)	0.18 (J)	0.12 (J)	
3/21/2017	<0.1						0.004 (J)
3/22/2017		0.11 (J)	0.04 (J)	0.09 (J)	0.08 (J)		
3/23/2017						0.14 (J)	
7/11/2017	0.05 (J)		0.05 (J)				0.05 (J)
7/12/2017		0.23 (J)		0.21 (J)	0.17 (J)	0.07 (J)	
10/17/2017							<0.1
10/18/2017	0.11 (J)	0.19 (J)	0.04 (J)	0.24 (J)	0.06 (J)		
10/19/2017						<0.1	
2/20/2018	0.04 (J)						0.098 (J)
2/21/2018		0.093 (J)	<0.1	0.24 (J)	0.086 (J)	0.37	
7/11/2018	<0.1						<0.1
7/12/2018		<0.1	<0.1			0.17 (J)	
8/15/2018					<0.1		
8/16/2018				0.073 (J)			
9/12/2018	<0.1						0.034 (J)
9/13/2018		0.15 (J)	<0.1		<0.1		
9/14/2018				<0.1		<0.1	
3/26/2019							<0.1
3/27/2019	<0.1		<0.1		<0.1		
3/28/2019		0.1		0.15		0.074	
10/1/2019							0.062 (X)
10/2/2019	0.056 (X)	0.075 (X)	0.053 (X)	0.063 (X)			
10/3/2019					0.043 (X)	0.084 (X)	
3/24/2020							<0.1
3/25/2020	<0.1			<0.1			
3/26/2020		0.056 (J)	<0.1		<0.1	0.077 (J)	
8/25/2020							<0.1
8/26/2020	<0.1	<0.1	<0.1	<0.1		0.062 (J)	
8/27/2020					<0.1		
10/6/2020	<0.1		<0.1				<0.1
10/7/2020		<0.1		<0.1	<0.1	0.064 (J)	
3/3/2021	<0.1					0.058 (J)	<0.1
3/4/2021		<0.1	<0.1	<0.1	<0.1		
9/14/2021							<0.1
9/15/2021	<0.1	<0.1	<0.1				
9/16/2021				0.052 (J)	<0.1	0.067 (J)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	0.13 (J)						
9/1/2016							<0.1
9/8/2016		0.25 (J)					
10/18/2016				0.16 (J)	0.11 (J)		
12/6/2016				0.15 (J)			
12/7/2016	0.13 (J)				0.07 (J)		0.15 (J)
12/8/2016		0.22 (J)				0.21 (J)	
3/21/2017	0.05 (J)			0.02 (J)			
3/22/2017		0.16 (J)					0.09 (J)
3/23/2017					<0.1	0.18 (J)	
7/11/2017	0.05 (J)	0.23 (J)		0.06 (J)	0.02 (J)		
7/12/2017						0.06 (J)	0.02 (J)
10/17/2017				0.05 (J)	<0.1		
10/18/2017	<0.1	0.28 (J)					
10/19/2017						<0.1	<0.1
2/20/2018	0.3 (J)			0.21 (J)	<0.1		
2/21/2018		0.29 (J)				0.039 (J)	0.045 (J)
4/12/2018			<0.1				
5/23/2018			0.063 (J)				
6/13/2018			0.11 (J)				
7/11/2018	0.077 (J)		<0.1	0.087 (J)	<0.1		
7/12/2018		0.21 (J)				<0.1	<0.1
8/17/2018			<0.1				
9/12/2018			0.093 (J)	0.049 (J)			
9/13/2018	<0.1	0.22 (J)			<0.1		<0.1
9/14/2018						<0.1	
10/4/2018			0.15 (J)			0.15 (J)	
10/24/2018			0.29 (J)				
3/26/2019				<0.1			
3/27/2019	<0.1	0.37	0.04		<0.1		
3/28/2019						<0.1	<0.1
9/10/2019	<0.1						
10/1/2019					0.042 (X)		
10/2/2019		0.16 (X)	0.11 (X)	0.057 (X)			
10/3/2019						0.06 (X)	0.041 (X)
3/24/2020			0.051 (J)				
3/25/2020	0.066 (J)	0.13 (J)		<0.1	<0.1		
3/26/2020						<0.1	<0.1
8/25/2020				<0.1	<0.1		
8/26/2020	0.057 (J)	0.14	0.057 (J)			<0.1	<0.1
10/6/2020	0.052 (J)		0.073 (J)	<0.1	<0.1		
10/7/2020		0.13				<0.1	<0.1
3/3/2021	<0.1	0.12		<0.1	<0.1		
3/4/2021						<0.1	<0.1
3/8/2021			<0.1				
9/14/2021			0.089 (J)		<0.1		
9/15/2021	<0.1	0.14		<0.1			
9/16/2021						<0.1	<0.1

Time Series

Constituent: Lead (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							<0.001
8/31/2016	<0.001						
9/1/2016		<0.001					
9/6/2016			<0.001				
9/7/2016				<0.001	<0.001	<0.001	
12/6/2016							<0.001
12/7/2016	<0.001	<0.001	<0.001				
12/8/2016				<0.001	<0.001	<0.001	
3/21/2017	<0.001						<0.001
3/22/2017		5E-05 (J)	<0.001	<0.001	<0.001		
3/23/2017						<0.001	
7/11/2017	<0.001		<0.001				<0.001
7/12/2017		<0.001		<0.001	<0.001	<0.001	
10/17/2017							0.0001 (J)
10/18/2017	<0.001	<0.001	<0.001	<0.001	<0.001		
10/19/2017						<0.001	
2/20/2018	<0.001						<0.001
2/21/2018		<0.001	<0.001	<0.001	0.00043 (J)	<0.001	
7/11/2018	<0.001						<0.001
7/12/2018		<0.001	<0.001			<0.001	
8/15/2018					<0.001		
8/16/2018				<0.001			
9/12/2018	<0.001						<0.001
9/13/2018		<0.001	<0.001		<0.001		
9/14/2018				<0.001		<0.001	
10/1/2019							<0.001
10/2/2019	<0.001	<0.001	8.1E-05 (X)	<0.001			
10/3/2019					<0.001	<0.001	
3/24/2020							6.2E-05 (J)
3/25/2020	<0.001			<0.001			
3/26/2020		<0.001	<0.001		<0.001	<0.001	
8/25/2020							6.5E-05 (J)
8/26/2020	<0.001	<0.001	<0.001	<0.001		<0.001	
8/27/2020					<0.001		
10/6/2020	<0.001		<0.001				6.6E-05 (J)
10/7/2020		<0.001		<0.001	4.2E-05 (J)	4.2E-05 (J)	
3/3/2021	<0.001					<0.001	5.5E-05 (J)
3/4/2021		<0.001	<0.001	<0.001	<0.001		
9/14/2021							<0.001
9/15/2021	<0.001	<0.001	<0.001				
9/16/2021				<0.001	<0.001	<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.001						
9/1/2016							<0.001
9/8/2016		<0.001					
10/18/2016				<0.001	0.0001 (J)		
12/6/2016				<0.001			
12/7/2016	<0.001				<0.001		<0.001
12/8/2016		<0.001				<0.001	
3/21/2017	<0.001			<0.001			
3/22/2017		<0.001					<0.001
3/23/2017					0.0002 (J)	9E-05 (J)	
7/11/2017	<0.001	<0.001		<0.001	<0.001		
7/12/2017						<0.001	<0.001
10/17/2017				0.0005 (J)	7E-05 (J)		
10/18/2017	<0.001	<0.001					
10/19/2017						<0.001	<0.001
2/20/2018	<0.001			<0.001	<0.001		
2/21/2018		<0.001				<0.001	<0.001
4/12/2018			<0.001				
5/23/2018			<0.001				
6/13/2018			<0.001				
7/11/2018	<0.001		<0.001	<0.001	<0.001		
7/12/2018		<0.001				<0.001	<0.001
8/17/2018			<0.001				
9/12/2018			<0.001	<0.001			
9/13/2018	<0.001	<0.001			<0.001		<0.001
9/14/2018						<0.001	
10/4/2018			<0.001			<0.001	
10/24/2018			<0.001				
9/10/2019	<0.001						
10/1/2019					<0.001		
10/2/2019		<0.001	4.7E-05 (X)	8.1E-05 (X)			
10/3/2019						4.7E-05 (X)	<0.001
3/24/2020			<0.001				
3/25/2020	0.00015 (J)	<0.001		<0.001	<0.001		
3/26/2020						<0.001	<0.001
8/25/2020				<0.001	6.3E-05 (J)		
8/26/2020	<0.001	<0.001	<0.001			<0.001	<0.001
10/6/2020	4.7E-05 (J)		<0.001	<0.001	<0.001		
10/7/2020		<0.001				<0.001	<0.001
3/3/2021	5.8E-05 (J)	<0.001		<0.001	<0.001		
3/4/2021						<0.001	4.1E-05 (J)
3/8/2021			6.2E-05 (J)				
9/14/2021			<0.001		<0.001		
9/15/2021	<0.001	<0.001		<0.001			
9/16/2021						<0.001	<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							<0.03
8/31/2016	<0.03						
9/1/2016		<0.03					
9/6/2016			<0.03				
9/7/2016				<0.03	<0.03	0.0082 (J)	
12/6/2016							<0.03
12/7/2016	0.003 (J)	<0.03	<0.03				
12/8/2016				<0.03	<0.03	0.0061 (J)	
3/21/2017	<0.03						<0.03
3/22/2017		0.0011 (J)	<0.03	0.0021 (J)	0.0029 (J)		
3/23/2017						0.0122 (J)	
7/11/2017	<0.03		<0.03				<0.03
7/12/2017		<0.03		0.002 (J)	0.0024 (J)	0.013 (J)	
10/17/2017							<0.03
10/18/2017	<0.03	<0.03	<0.03	0.002 (J)	0.0027 (J)		
10/19/2017						0.013 (J)	
2/20/2018	<0.03						<0.03
2/21/2018		<0.03	<0.03	0.0022 (J)	0.0021 (J)	0.0085 (J)	
7/11/2018	<0.03						<0.03
7/12/2018		0.0012 (J)	<0.03			0.013 (J)	
8/15/2018					0.0027 (J)		
8/16/2018				0.0027 (J)			
9/12/2018	<0.03						<0.03
9/13/2018		0.0013 (J)	<0.03		0.0029 (J)		
9/14/2018				0.0025 (J)		0.018 (J)	
10/1/2019							<0.03
10/2/2019	<0.03	0.0013 (X)	<0.03	0.0024 (X)			
10/3/2019					0.0027 (X)	0.016 (X)	
3/24/2020							<0.03
3/25/2020	<0.03			0.003 (J)			
3/26/2020		0.0014 (J)	<0.03		0.0027 (J)	0.013 (J)	
8/25/2020							<0.03
8/26/2020	<0.03	0.0013 (J)	<0.03	0.0028 (J)		0.011 (J)	
8/27/2020					0.0025 (J)		
10/6/2020	<0.03		<0.03				<0.03
10/7/2020		0.0013 (J)		0.0029 (J)	0.003 (J)	0.013 (J)	
3/3/2021	<0.03					0.015 (J)	<0.03
3/4/2021		0.0014 (J)	<0.03	0.002 (J)	0.0029 (J)		
9/14/2021							<0.03
9/15/2021	<0.03	0.0013 (J)	<0.03				
9/16/2021				0.0021 (J)	0.0023 (J)	0.013 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.03						
9/1/2016							0.0022 (J)
9/8/2016		0.0038 (J)					
10/18/2016				<0.03	<0.03		
12/6/2016				<0.03			
12/7/2016	<0.03				<0.03		0.0023 (J)
12/8/2016		0.0038 (J)				<0.03	
3/21/2017	<0.03			<0.03			
3/22/2017		0.0068 (J)					0.0025 (J)
3/23/2017					<0.03	<0.03	
7/11/2017	<0.03	0.0059 (J)		<0.03	<0.03		
7/12/2017						<0.03	0.0033 (J)
10/17/2017				<0.03	<0.03		
10/18/2017	<0.03	0.0057 (J)					
10/19/2017						<0.03	<0.03
2/20/2018	<0.03			<0.03	<0.03		
2/21/2018		0.0063 (J)				<0.03	0.0034 (J)
4/12/2018			<0.03				
5/23/2018			<0.03				
6/13/2018			<0.03				
7/11/2018	<0.03		0.0011 (J)	<0.03	<0.03		
7/12/2018		0.0063 (J)				<0.03	0.0038 (J)
8/17/2018			0.0024 (J)				
9/12/2018			0.0025 (J)	<0.03			
9/13/2018	<0.03	0.0061 (J)			<0.03		0.0026 (J)
9/14/2018						<0.03	
10/4/2018			0.0021 (J)			<0.03	
10/24/2018			0.0021 (J)				
9/10/2019	<0.03						
10/1/2019					<0.03		
10/2/2019		0.0074 (X)	0.0016 (X)	<0.03			
10/3/2019						<0.03	0.0032 (X)
3/24/2020			0.0019 (J)				
3/25/2020	0.0011 (J)	0.0066 (J)		<0.03	<0.03		
3/26/2020						<0.03	0.0031 (J)
8/25/2020				<0.03	<0.03		
8/26/2020	0.0011 (J)	0.0065 (J)	0.0015 (J)			<0.03	0.0023 (J)
10/6/2020	0.00097 (J)		0.00099 (J)	<0.03	<0.03		
10/7/2020		0.0063 (J)				<0.03	0.0023 (J)
3/3/2021	0.001 (J)	0.0061 (J)		<0.03	<0.03		
3/4/2021						<0.03	0.0031 (J)
3/8/2021			0.0019 (J)				
9/14/2021			0.0013 (J)		<0.03		
9/15/2021	0.00085 (J)	0.0061 (J)		<0.03			
9/16/2021						<0.03	0.0025 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							<0.0002
8/31/2016	<0.0002						
9/1/2016		<0.0002					
9/6/2016			<0.0002				
9/7/2016				<0.0002	<0.0002	<0.0002	
12/6/2016							<0.0002
12/7/2016	7E-05 (J)	<0.0002	<0.0002				
12/8/2016				<0.0002	<0.0002	<0.0002	
3/21/2017	<0.0002						<0.0002
3/22/2017		<0.0002	<0.0002	<0.0002	<0.0002		
3/23/2017						<0.0002	
7/11/2017	<0.0002		<0.0002				<0.0002
7/12/2017		<0.0002		<0.0002	<0.0002	<0.0002	
10/17/2017							<0.0002
10/18/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
10/19/2017						<0.0002	
2/20/2018	<0.0002						<0.0002
2/21/2018		9.7E-05 (J)	6.8E-05 (J)	8.6E-05 (J)	5.7E-05 (J)	4.5E-05 (J)	
7/11/2018	<0.0002						<0.0002
7/12/2018		<0.0002	<0.0002			<0.0002	
8/15/2018					<0.0002		
8/16/2018				<0.0002			
9/12/2018	<0.0002						<0.0002
9/13/2018		<0.0002	<0.0002		<0.0002		
9/14/2018				<0.0002		<0.0002	
8/25/2020							9.9E-05 (J)
8/26/2020	0.00015 (J)	<0.0002	<0.0002	<0.0002		0.0001 (J)	
8/27/2020					<0.0002		
10/6/2020	<0.0002		<0.0002				<0.0002
10/7/2020		<0.0002		<0.0002	<0.0002	<0.0002	
3/3/2021	<0.0002					<0.0002	<0.0002
3/4/2021		<0.0002	<0.0002	<0.0002	<0.0002		
9/14/2021							<0.0002
9/15/2021	<0.0002	<0.0002	<0.0002				
9/16/2021				<0.0002	<0.0002	<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.0002						
9/1/2016							<0.0002
9/8/2016		<0.0002					
10/18/2016				<0.0002	<0.0002		
12/6/2016				<0.0002			
12/7/2016	9E-05 (J)				<0.0002		6E-05 (J)
12/8/2016		<0.0002				<0.0002	
3/21/2017	<0.0002			<0.0002			
3/22/2017		<0.0002					<0.0002
3/23/2017					<0.0002	<0.0002	
7/11/2017	<0.0002	<0.0002		<0.0002	<0.0002		
7/12/2017						<0.0002	<0.0002
10/17/2017				<0.0002	<0.0002		
10/18/2017	<0.0002	<0.0002					
10/19/2017						<0.0002	<0.0002
2/20/2018	<0.0002			<0.0002	<0.0002		
2/21/2018		5.3E-05 (J)				4.3E-05 (J)	5.3E-05 (J)
4/12/2018			<0.0002				
5/23/2018			<0.0002				
6/13/2018			4.9E-05 (J)				
7/11/2018	<0.0002		<0.0002	<0.0002	<0.0002		
7/12/2018		<0.0002				<0.0002	<0.0002
8/17/2018			<0.0002				
9/12/2018			<0.0002	<0.0002			
9/13/2018	<0.0002	<0.0002			<0.0002		<0.0002
9/14/2018						4.1E-05 (J)	
10/4/2018			<0.0002			<0.0002	
10/24/2018			5.2E-05 (J)				
8/25/2020				0.0001 (J)	<0.0002		
8/26/2020	0.00017 (J)	<0.0002	<0.0002			0.00011 (J)	<0.0002
10/6/2020	<0.0002		<0.0002	<0.0002	<0.0002		
10/7/2020		<0.0002				<0.0002	<0.0002
3/3/2021	<0.0002	<0.0002		<0.0002	<0.0002		
3/4/2021						<0.0002	<0.0002
3/8/2021			<0.0002				
9/14/2021			<0.0002		<0.0002		
9/15/2021	<0.0002	<0.0002		<0.0002			
9/16/2021						<0.0002	<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							<0.01
8/31/2016	<0.01						
9/1/2016		<0.01					
9/6/2016			<0.01				
9/7/2016				<0.01	<0.01	0.0027 (J)	
12/6/2016							0.0019 (J)
12/7/2016	<0.01	<0.01	<0.01				
12/8/2016				<0.01	<0.01	0.0022 (J)	
3/21/2017	0.0005 (J)						0.0018 (J)
3/22/2017		0.0004 (J)	0.0004 (J)	0.0004 (J)	<0.01		
3/23/2017						0.0025 (J)	
7/11/2017	<0.01		<0.01				0.0018 (J)
7/12/2017		<0.01		<0.01	<0.01	0.0022 (J)	
10/17/2017							0.0016 (J)
10/18/2017	<0.01	<0.01	<0.01	<0.01	<0.01		
10/19/2017						0.0021 (J)	
2/20/2018	<0.01						<0.01
2/21/2018		<0.01	<0.01	<0.01	<0.01	<0.01	
7/11/2018	<0.01						<0.01
7/12/2018		<0.01	<0.01			0.0022 (J)	
8/15/2018					<0.01		
8/16/2018				<0.01			
9/12/2018	<0.01						<0.01
9/13/2018		<0.01	<0.01		<0.01		
9/14/2018				<0.01		0.0023 (J)	
10/1/2019							0.001 (X)
10/2/2019	<0.01	<0.01	<0.01	<0.01			
10/3/2019					<0.01	0.0024 (X)	
3/24/2020							0.001 (J)
3/25/2020	<0.01			<0.01			
3/26/2020		<0.01	<0.01		<0.01	0.0021 (J)	
8/25/2020							0.001 (J)
8/26/2020	<0.01	<0.01	<0.01	<0.01		0.002 (J)	
8/27/2020					<0.01		
10/6/2020	<0.01		<0.01				0.0009 (J)
10/7/2020		<0.01		<0.01	<0.01	0.0019 (J)	
3/3/2021	<0.01					0.0021 (J)	0.00076 (J)
3/4/2021		<0.01	<0.01	<0.01	<0.01		
9/14/2021							0.00086 (J)
9/15/2021	<0.01	<0.01	<0.01				
9/16/2021				<0.01	<0.01	0.0021 (J)	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.01						
9/1/2016							<0.01
9/8/2016		<0.01					
10/18/2016				<0.01	<0.01		
12/6/2016				<0.01			
12/7/2016	<0.01				<0.01		<0.01
12/8/2016		<0.01				<0.01	
3/21/2017	0.0006 (J)			0.0005 (J)			
3/22/2017		0.001 (J)					<0.01
3/23/2017					<0.01	<0.01	
7/11/2017	<0.01	<0.01		<0.01	<0.01		
7/12/2017						<0.01	<0.01
10/17/2017				<0.01	<0.01		
10/18/2017	<0.01	<0.01					
10/19/2017						<0.01	<0.01
2/20/2018	<0.01			<0.01	<0.01		
2/21/2018		<0.01				<0.01	<0.01
4/12/2018			<0.01				
5/23/2018			<0.01				
6/13/2018			<0.01				
7/11/2018	<0.01		<0.01	<0.01	<0.01		
7/12/2018		<0.01				<0.01	<0.01
8/17/2018			<0.01				
9/12/2018			<0.01	<0.01			
9/13/2018	<0.01	<0.01			<0.01		<0.01
9/14/2018						<0.01	
10/4/2018			<0.01			<0.01	
10/24/2018			<0.01				
9/10/2019	<0.01						
10/1/2019					<0.01		
10/2/2019		<0.01	<0.01	<0.01			
10/3/2019						<0.01	<0.01
3/24/2020			<0.01				
3/25/2020	0.0011 (J)	<0.01		<0.01	<0.01		
3/26/2020						<0.01	<0.01
8/25/2020				<0.01	<0.01		
8/26/2020	<0.01	<0.01	<0.01			<0.01	<0.01
10/6/2020	<0.01		0.00069 (J)	<0.01	<0.01		
10/7/2020		<0.01				<0.01	<0.01
3/3/2021	<0.01	<0.01		<0.01	<0.01		
3/4/2021						<0.01	<0.01
3/8/2021			<0.01				
9/14/2021			0.00077 (J)		<0.01		
9/15/2021	<0.01	<0.01		<0.01			
9/16/2021						<0.01	<0.01

Time Series

Constituent: pH (SU) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							7.67
8/31/2016	6.97						
9/1/2016		7.21					
9/6/2016			7.23				
9/7/2016				7.02	6.92	6.71	
12/6/2016							7.57
12/7/2016	6.85	7.13	7.3				
12/8/2016				6.95	6.9	6.61	
3/21/2017	7.04						7.54
3/22/2017		7.04	7.2	7.05	7		
3/23/2017						6.69	
7/11/2017	6.88		7.31				7.43
7/12/2017		7.09		7.06	6.95	6.69	
10/17/2017							7.7
10/18/2017	6.77	7.2	7.28	6.99		6.88	
10/19/2017						6.85	
2/20/2018	7.32 (D)						7.57
2/21/2018		7.11	7.1	6.95	6.89	6.66	
7/11/2018	7.12						7.48
7/12/2018		7.07	7.14	7.06	7.01	6.84	
8/15/2018					6.87		
8/16/2018				7.01			
9/12/2018	6.87						7.41
9/13/2018		7.01	7.08		6.86		
9/14/2018				6.83		6.76	
3/26/2019							7.49
3/27/2019	6.98		7.23		6.92		
3/28/2019		7.84		6.97		6.67	
10/1/2019							7.5
10/2/2019	6.96	7.22	7.22	6.99			
10/3/2019					6.78	6.93	
3/24/2020							7.79
3/25/2020	7.02			6.93			
3/26/2020		7.08	7.12		7.01	6.7	
8/25/2020							7.49
8/26/2020	6.98	7.08	7.18	6.98		6.68	
8/27/2020					6.88		
10/6/2020	7.01		7.24				7.35
10/7/2020		7.11		7.04	6.91	6.78	
3/3/2021	6.99					6.78	7.56
3/4/2021		7.09	7.34	7.09	6.91		
9/14/2021							7.45
9/15/2021	6.94	7.09	7.12				
9/16/2021				7.03	6.85	6.77	

Time Series

Constituent: pH (SU) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	6.75						
9/1/2016							7.07
9/8/2016		7.1					
10/4/2016						6.88	
10/5/2016						6.91	
10/17/2016					7.43		
10/18/2016				7.15	7.45		
12/6/2016				7.04			
12/7/2016	6.64				7.29		6.85
12/8/2016		6.98				6.86	
3/21/2017	6.73			7.01			
3/22/2017		7.16					6.99
3/23/2017					7.26	6.9	
7/11/2017	6.66	7.15		6.96	7.31	7.82 (o)	
7/12/2017						6.81	6.83
10/17/2017			7.61	7.31	7.29		
10/18/2017	6.73	7.09					
10/19/2017						6.86	6.91
2/20/2018	7.11				7.26		
2/21/2018		7.12				7.02	6.97
7/11/2018	7		9.48	7.26	7.39		
7/12/2018				7.01		6.82	6.85
9/12/2018			9.07	7.02			
9/13/2018	6.56	7.03			7.25		6.88
9/14/2018						6.75	
3/26/2019				7			
3/27/2019	6.75	7.08	8.76		7.42		
3/28/2019						6.96	6.96
9/10/2019	6.78						
10/1/2019					7.43		
10/2/2019		7.2	8.97	7.09			
10/3/2019						7.01	6.85
3/24/2020			8.57				
3/25/2020	6.84	7.01		7.15	7.23		
3/26/2020						7	7.12
8/25/2020				7.14	7.53		
8/26/2020	6.64	7.09	7.97			6.99	7.01
10/6/2020	6.78		8.72	7.01	7.27		
10/7/2020		6.95				7.04	6.98
3/3/2021	6.79	7.04		7.14	7.41		
3/4/2021						7.22	6.95
3/8/2021			7.77				
9/14/2021			8.96		7.31		
9/15/2021	6.72	7.05		6.99			
9/16/2021						7.1	6.96

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							<0.005
8/31/2016	0.0012 (J)						
9/1/2016		<0.005					
9/6/2016			<0.005				
9/7/2016				<0.005	<0.005	<0.005	
12/6/2016							<0.005
12/7/2016	<0.005	<0.005	<0.005				
12/8/2016				<0.005	<0.005	<0.005	
3/21/2017	<0.005						<0.005
3/22/2017		<0.005	<0.005	<0.005	<0.005		
3/23/2017						<0.005	
7/11/2017	<0.005		<0.005				<0.005
7/12/2017		<0.005		<0.005	<0.005	<0.005	
10/17/2017							<0.005
10/18/2017	<0.005	<0.005	<0.005	<0.005	<0.005		
10/19/2017						<0.005	
2/20/2018	<0.005						<0.005
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.005	
7/11/2018	<0.005						<0.005
7/12/2018		<0.005	<0.005			<0.005	
8/15/2018					<0.005		
8/16/2018				<0.005			
9/12/2018	<0.005						<0.005
9/13/2018		<0.005	<0.005		<0.005		
9/14/2018				<0.005		0.0015 (J)	
10/1/2019							<0.005
10/2/2019	0.0015 (X)	<0.005	<0.005	<0.005			
10/3/2019					<0.005	0.0034 (X)	
3/24/2020							<0.005
3/25/2020	<0.005			<0.005			
3/26/2020		<0.005	<0.005		<0.005	0.0016 (J)	
8/25/2020							<0.005
8/26/2020	<0.005	0.0018 (J)	<0.005	<0.005		0.0031 (J)	
8/27/2020					<0.005		
10/6/2020	<0.005		<0.005				<0.005
10/7/2020		<0.005		<0.005	<0.005	0.0035 (J)	
3/3/2021	<0.005					0.0033 (J)	<0.005
3/4/2021		<0.005	<0.005	<0.005	<0.005		
9/14/2021							<0.005
9/15/2021	<0.005	<0.005	<0.005				
9/16/2021				<0.005	<0.005	0.0033 (J)	

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	0.0014 (J)						
9/1/2016							<0.005
9/8/2016		<0.005					
10/18/2016				<0.005	<0.005		
12/6/2016				<0.005			
12/7/2016	<0.005				<0.005		<0.005
12/8/2016		<0.005				<0.005	
3/21/2017	<0.005			<0.005			
3/22/2017		<0.005					<0.005
3/23/2017					<0.005	<0.005	
7/11/2017	<0.005	<0.005		<0.005	<0.005		
7/12/2017						<0.005	<0.005
10/17/2017				<0.005	<0.005		
10/18/2017	<0.005	<0.005					
10/19/2017						<0.005	<0.005
2/20/2018	<0.005			<0.005	<0.005		
2/21/2018		<0.005				<0.005	<0.005
4/12/2018			<0.005				
5/23/2018			<0.005				
6/13/2018			<0.005				
7/11/2018	<0.005		<0.005	<0.005	<0.005		
7/12/2018		<0.005				<0.005	<0.005
8/17/2018			<0.005				
9/12/2018			<0.005	<0.005			
9/13/2018	<0.005	<0.005			<0.005		<0.005
9/14/2018						<0.005	
10/4/2018			<0.005			<0.005	
10/24/2018			<0.005				
9/10/2019	0.0018 (X)						
10/1/2019					<0.005		
10/2/2019		<0.005	<0.005	<0.005			
10/3/2019						<0.005	0.0017 (X)
3/24/2020			<0.005				
3/25/2020	0.003 (J)	<0.005		<0.005	<0.005		
3/26/2020						<0.005	<0.005
8/25/2020				<0.005	<0.005		
8/26/2020	0.0026 (J)	<0.005	<0.005			<0.005	0.0018 (J)
10/6/2020	0.0027 (J)		<0.005	<0.005	<0.005		
10/7/2020		<0.005				<0.005	<0.005
3/3/2021	0.0025 (J)	<0.005		<0.005	<0.005		
3/4/2021						<0.005	0.0018 (J)
3/8/2021			<0.005				
9/14/2021			<0.005		<0.005		
9/15/2021	0.0024 (J)	<0.005		<0.005			
9/16/2021						<0.005	<0.005

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							2.1
8/31/2016	4.1						
9/1/2016		73					
9/6/2016			49				
9/7/2016				99	96	87	
12/6/2016							2.4
12/7/2016	1.5	71	46				
12/8/2016				94	94	84	
3/21/2017	2						2.5
3/22/2017		80	53	100	95		
3/23/2017						90	
7/11/2017	2		52				2.6
7/12/2017		78		100	96	93	
10/17/2017							2.5
10/18/2017	4.2	82	58	100	99		
10/19/2017						92	
2/20/2018	2.4						2.3
2/21/2018		72.2	48.2	98.8	91.8	84.5	
7/11/2018	3.8						2.5
7/12/2018		80.5	48.8			84.9	
8/15/2018					101		
8/16/2018				111			
9/12/2018	4.3						2
9/13/2018		84.4	48.7		106		
9/14/2018				102		89.5	
3/26/2019							2.7
3/27/2019	8.2		46.5		111		
3/28/2019		90.3		94.7		83.5	
10/1/2019							2.8
10/2/2019	6.2	83	48.5	104			
10/3/2019					95.8	84.9	
3/24/2020							3
3/25/2020	11.9			92.4			
3/26/2020		83.6	43.5		91	84.9	
10/6/2020	11		42.4				2.4
10/7/2020		80.7		89.1	87.3	83.3	
3/3/2021	8.8					80.8	2.2
3/4/2021		74.1	38.9	66.8	88.6		
9/14/2021							2.6
9/15/2021	11.4	73.4	37.8				
9/16/2021				70.9	86.9	72.7	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	29						
9/1/2016							62
9/8/2016		48					
10/18/2016				2.2	2.3		
12/6/2016				6.1			
12/7/2016	24				1.9		57
12/8/2016		46				100	
3/21/2017	31			5.7			
3/22/2017		53					61
3/23/2017					1.7	100	
7/11/2017	37	51		4.8	1.8		
7/12/2017						97	53
10/17/2017				6.4	1.9		
10/18/2017	34	50					
10/19/2017						97	55
2/20/2018	34.7			5.2	2.1		
2/21/2018		46.8				93.6	52.1
4/12/2018			4.8 (J)				
5/23/2018			4.5				
6/13/2018			5.3				
7/11/2018	35.4		5.4	3.6	2		
7/12/2018		48.3				89.4	53.9
8/17/2018			4.5				
9/12/2018			4.4	2.7			
9/13/2018	37.4	42			2.1		67.5
9/14/2018						88.9	
10/4/2018			5.8			97.8	
10/24/2018			6.2				
3/26/2019				1.6			
3/27/2019	41.9	43.7	3.7		2.4		
3/28/2019						76.7	59.6
9/10/2019	45.1						
10/1/2019					2.2		
10/2/2019		43	4.1	1.6			
10/3/2019						72.1	59.6
3/24/2020			3.1				
3/25/2020	47	39.1		1.5	1.9		
3/26/2020						66.6	57.1
10/6/2020	71.2		3.1	0.98 (J)	1.9		
10/7/2020		38.1				54.6	48.9
3/3/2021	66	39.2		0.6 (J)	2		
3/4/2021						49.3	49.7
3/8/2021			2.7				
9/14/2021			3.8		1.8		
9/15/2021	46.8	37.8		0.64 (J)			
9/16/2021						40.4	41.8

Time Series

Constituent: TDS (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							136
8/31/2016	344						
9/1/2016		284					
9/6/2016			257				
9/7/2016				392	415	508	
12/6/2016							207
12/7/2016	393	242	248				
12/8/2016				431	441	556	
3/21/2017	276						128
3/22/2017		332	304	456	469		
3/23/2017						482	
7/11/2017	263		265				138
7/12/2017		308		445	432	497	
10/17/2017							101
10/18/2017	261	275	240	349	368		
10/19/2017						448	
2/20/2018	295						138
2/21/2018		312	285	411	409	500	
7/11/2018	294						153
7/12/2018		337	285			523	
8/15/2018					422		
8/16/2018				415			
9/12/2018	286						146
9/13/2018		336	291		438		
9/14/2018				403		486	
3/26/2019							334
3/27/2019	281		277		408		
3/28/2019		337		420		378	
10/1/2019							146
10/2/2019	312	355	284	415			
10/3/2019					464	485	
3/24/2020							228
3/25/2020	330			408			
3/26/2020		330	286		415	440	
10/6/2020	241		261				153
10/7/2020		336		392	425	492	
3/3/2021	258					452	134
3/4/2021		300	264	325	427		
9/14/2021							150
9/15/2021	292	326	270				
9/16/2021				330	419	450	

Time Series

Constituent: TDS (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	400						
9/1/2016							373
9/8/2016		293					
10/18/2016				264	152		
12/6/2016				299			
12/7/2016	406				214		433
12/8/2016		309				503 (o)	
3/21/2017	409			260			
3/22/2017		299					409
3/23/2017					165	430	
7/11/2017	414	301		244	162		
7/12/2017						438	374
10/17/2017				218	140		
10/18/2017	366	256					
10/19/2017						393	318
2/20/2018	429			264	163		
2/21/2018		297				435	367
4/12/2018			69				
5/23/2018			62				
6/13/2018			93				
7/11/2018	440		84	273	192		
7/12/2018		310				447	423
8/17/2018			115				
9/12/2018			97	252			
9/13/2018	448	307			192		394
9/14/2018						447	
10/4/2018			103			450	
10/24/2018			110				
3/26/2019				253			
3/27/2019	410	287	87		167		
3/28/2019						405	365
9/10/2019	420						
10/1/2019					187		
10/2/2019		312	95	263			
10/3/2019						414	405
3/24/2020			123				
3/25/2020	454	280		278	178		
3/26/2020						336	332
10/6/2020	462		81	254	169		
10/7/2020		280				337	334
3/3/2021	444	267		264	166		
3/4/2021						283	335
3/8/2021			126				
9/14/2021			71		179		
9/15/2021	422	272		256			
9/16/2021						296	307

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/5/2021 1:40 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							<0.001
8/31/2016	<0.001						
9/1/2016		<0.001					
9/6/2016			<0.001				
9/7/2016				<0.001	<0.001	<0.001	
12/6/2016							<0.001
12/7/2016	<0.001	<0.001	<0.001				
12/8/2016				<0.001	<0.001	0.0003 (J)	
3/21/2017	6E-05 (J)						<0.001
3/22/2017		<0.001	0.0002 (J)	<0.001	4E-05 (J)		
3/23/2017						0.0003 (J)	
7/11/2017	<0.001		0.0002 (J)				<0.001
7/12/2017		<0.001		<0.001	<0.001	0.0004 (J)	
10/17/2017							<0.001
10/18/2017	<0.001	<0.001	0.0002 (J)	<0.001	5E-05 (J)		
10/19/2017						0.0005 (J)	
2/20/2018	<0.001						<0.001
2/21/2018		<0.001	0.00018 (J)	<0.001	<0.001	0.00049 (J)	
7/11/2018	<0.001						<0.001
7/12/2018		<0.001	<0.001			0.00077 (J)	
8/15/2018					<0.001		
8/16/2018				<0.001			
9/12/2018	<0.001						<0.001
9/13/2018		<0.001	0.00017 (J)		<0.001		
9/14/2018				<0.001		0.00076 (J)	
10/1/2019							<0.001
10/2/2019	<0.001	0.00016 (X)	5.3E-05 (X)	0.00016 (X)			
10/3/2019					<0.001	0.00071 (X)	
3/24/2020							<0.001
3/25/2020	<0.001			0.0002 (J)			
3/26/2020		0.00014 (J)	<0.001		7.1E-05 (J)	0.00068 (J)	
8/25/2020							<0.001
8/26/2020	<0.001	0.00027 (J)	<0.001	0.00025 (J)		0.00056 (J)	
8/27/2020					<0.001		
10/6/2020	<0.001		<0.001				<0.001
10/7/2020		0.00022 (J)		0.00022 (J)	<0.001	0.0007 (J)	
3/3/2021	<0.001					0.00072 (J)	<0.001
3/4/2021		0.00022 (J)	<0.001	0.00039 (J)	<0.001		
9/14/2021							<0.001
9/15/2021	<0.001	0.0002 (J)	<0.001				
9/16/2021				0.00034 (J)	<0.001	0.00066 (J)	

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/5/2021 1:40 AM

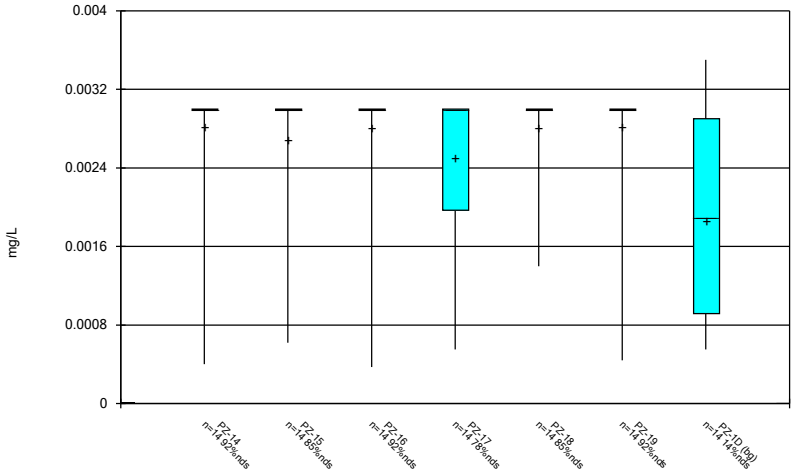
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.001						
9/1/2016							<0.001
9/8/2016		<0.001					
10/18/2016				<0.001	<0.001		
12/6/2016				<0.001			
12/7/2016	0.0002 (J)				0.0002 (J)		<0.001
12/8/2016		<0.001				<0.001	
3/21/2017	0.0003 (J)			6E-05 (J)			
3/22/2017		<0.001					0.0002 (J)
3/23/2017					8E-05 (J)	0.0001 (J)	
7/11/2017	0.0002 (J)	<0.001		<0.001	7E-05 (J)		
7/12/2017						0.0001 (J)	0.0001 (J)
10/17/2017				<0.001	8E-05 (J)		
10/18/2017	0.0001 (J)	<0.001					
10/19/2017						0.0001 (J)	0.0001 (J)
2/20/2018	0.00026 (J)			<0.001	<0.001		
2/21/2018		<0.001				<0.001	<0.001
4/12/2018			<0.001				
5/23/2018			<0.001				
6/13/2018			<0.001				
7/11/2018	0.00018 (J)		<0.001	<0.001	<0.001		
7/12/2018		<0.001				<0.001	<0.001
8/17/2018			<0.001				
9/12/2018			<0.001	<0.001			
9/13/2018	<0.001	<0.001			<0.001		<0.001
9/14/2018						<0.001	
10/4/2018			<0.001			<0.001	
10/24/2018			0.00016 (J)				
9/10/2019	<0.001						
10/1/2019					<0.001		
10/2/2019		0.00024 (X)	<0.001	<0.001			
10/3/2019						0.00018 (X)	7.8E-05 (X)
3/24/2020			<0.001				
3/25/2020	0.00015 (J)	0.00037 (J)		<0.001	<0.001		
3/26/2020						0.00015 (J)	8.5E-05 (J)
8/25/2020				<0.001	<0.001		
8/26/2020	0.00016 (J)	0.00037 (J)	<0.001			<0.001	<0.001
10/6/2020	<0.001		<0.001	<0.001	<0.001		
10/7/2020		0.00027 (J)				<0.001	<0.001
3/3/2021	0.00017 (J)	0.00036 (J)		<0.001	<0.001		
3/4/2021						<0.001	<0.001
3/8/2021			<0.001				
9/14/2021			<0.001		<0.001		
9/15/2021	<0.001	0.00066 (J)		<0.001			
9/16/2021						<0.001	<0.001

FIGURE B.

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

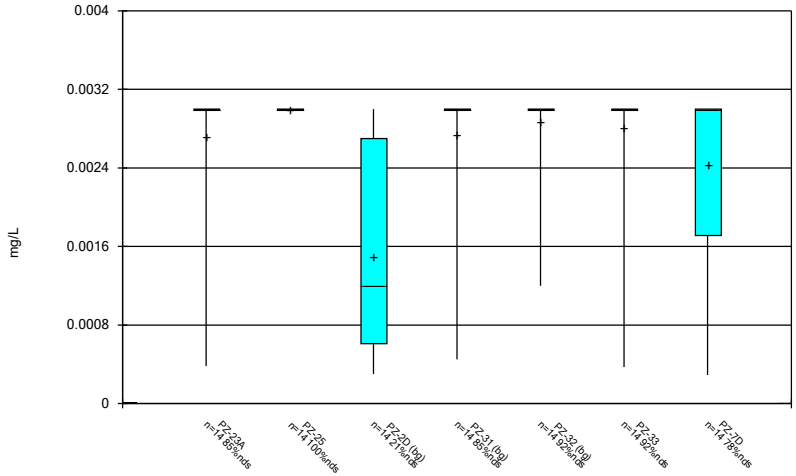


Constituent: Antimony Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

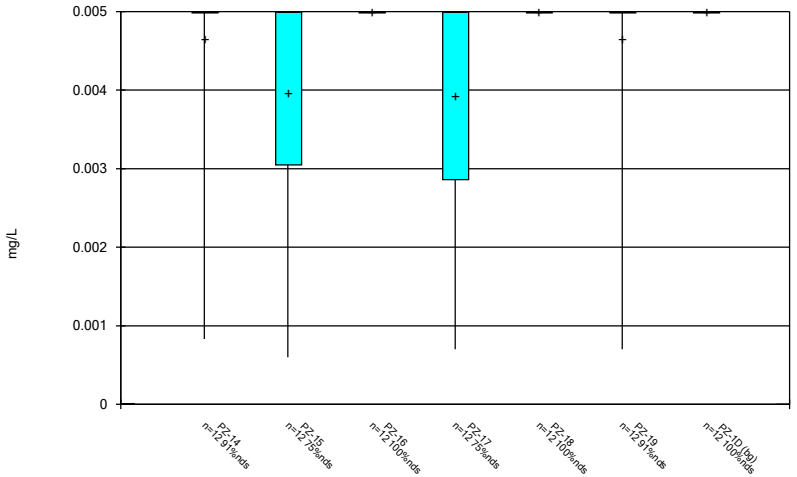


Constituent: Antimony Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

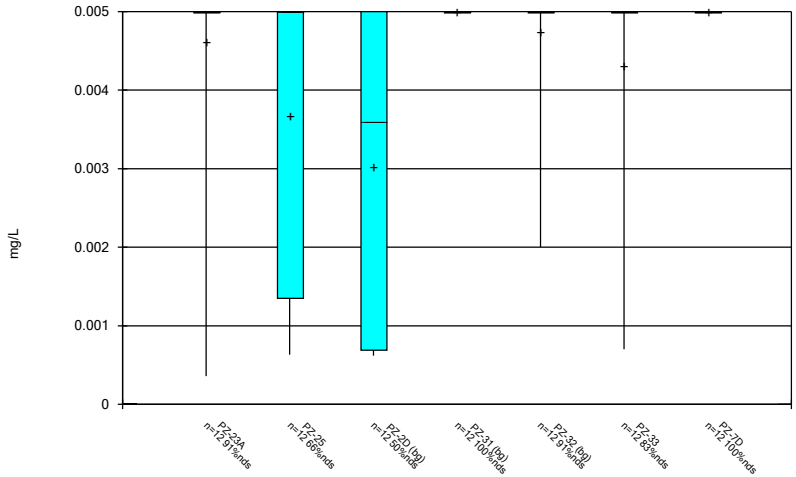


Constituent: Arsenic Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

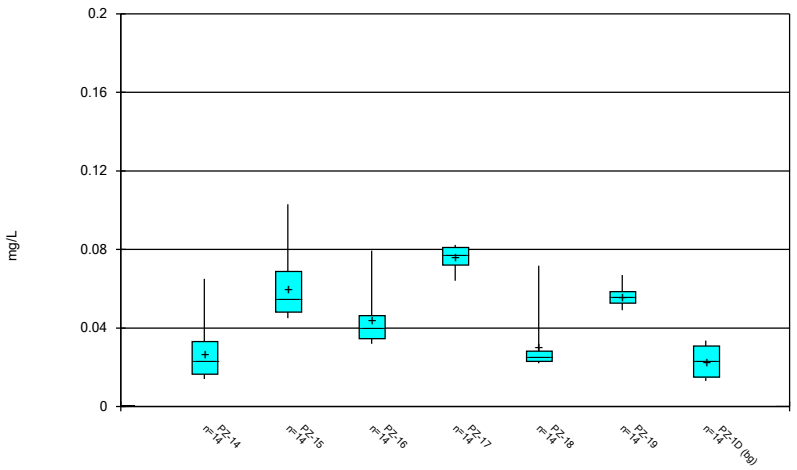


Constituent: Arsenic Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

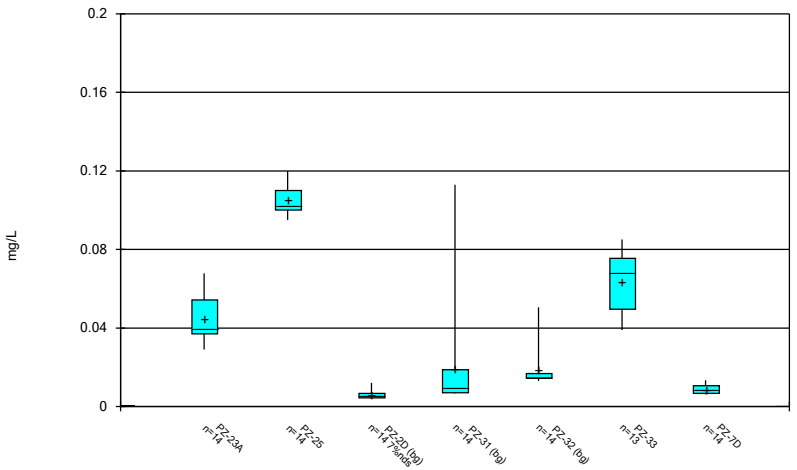


Constituent: Barium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

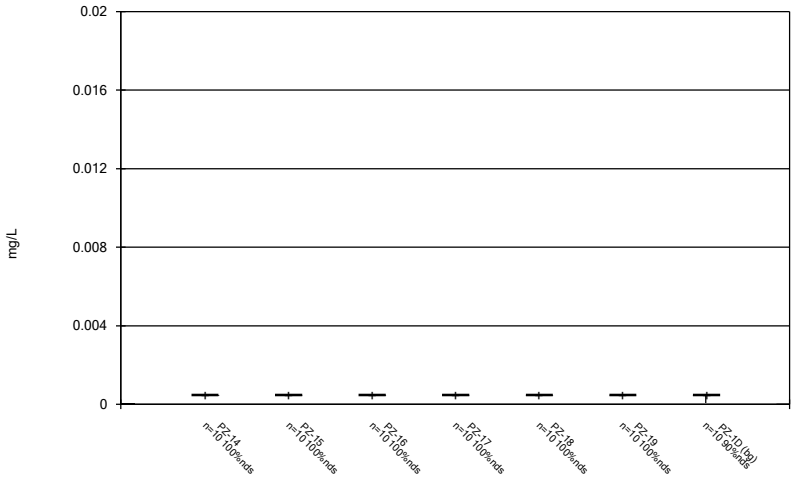


Constituent: Barium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

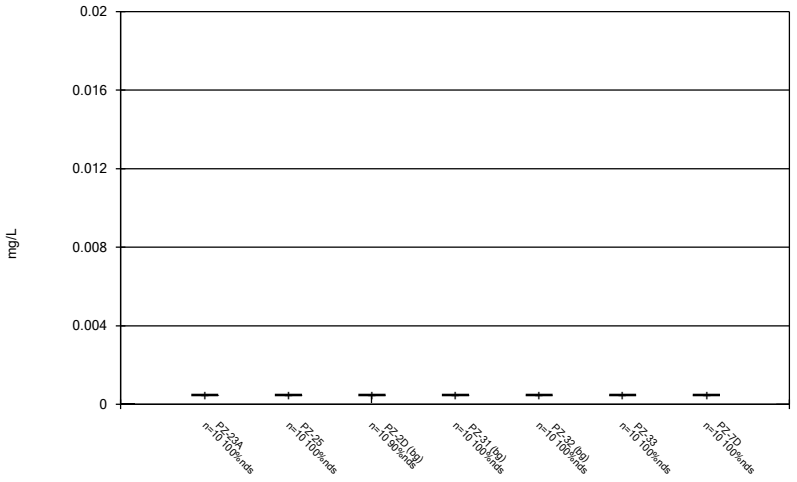


Constituent: Beryllium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

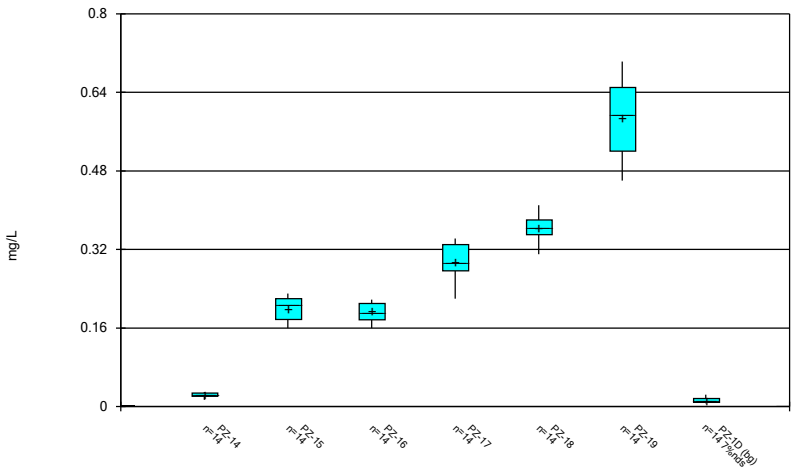


Constituent: Beryllium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

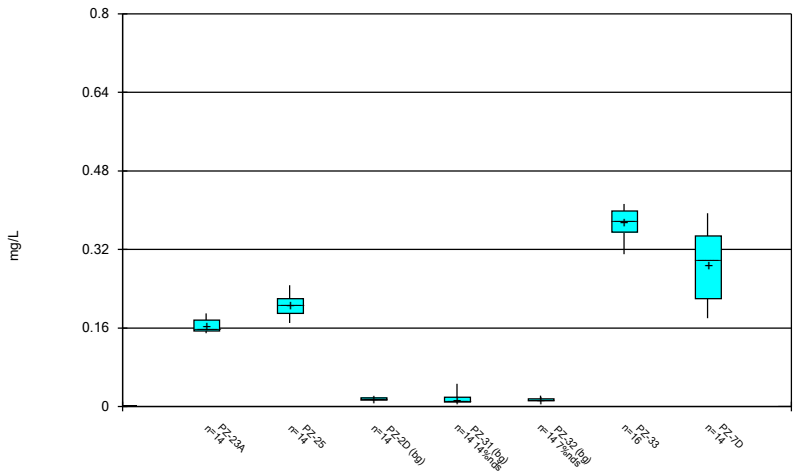


Constituent: Boron Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

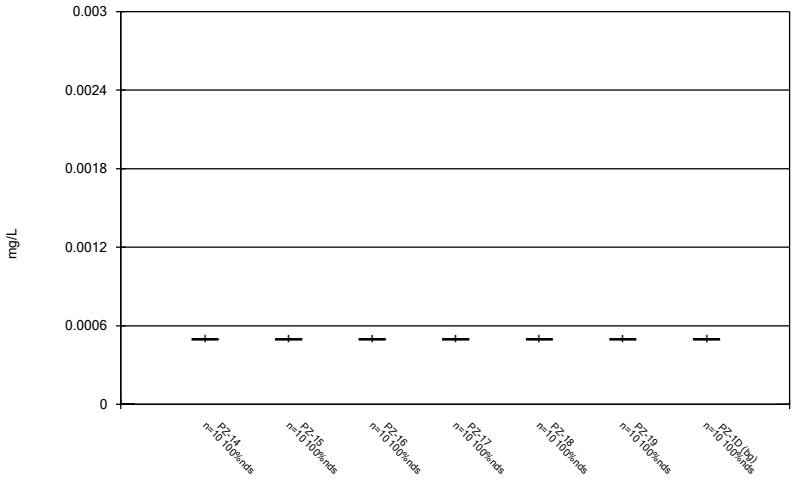


Constituent: Boron Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

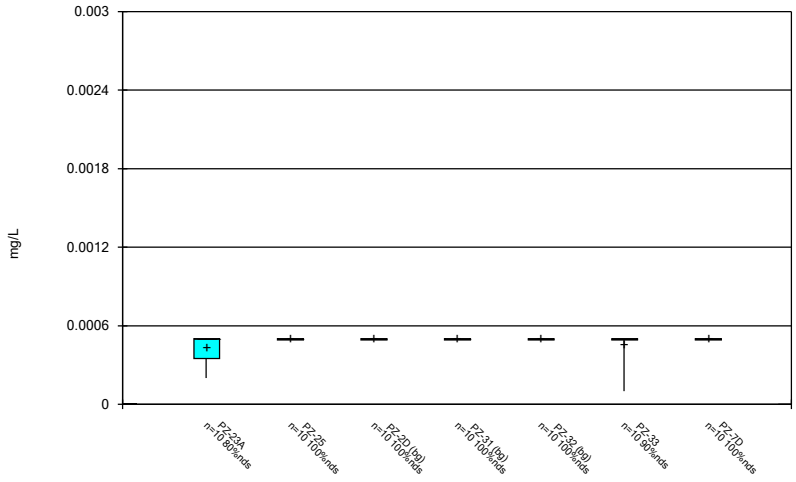


Constituent: Cadmium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

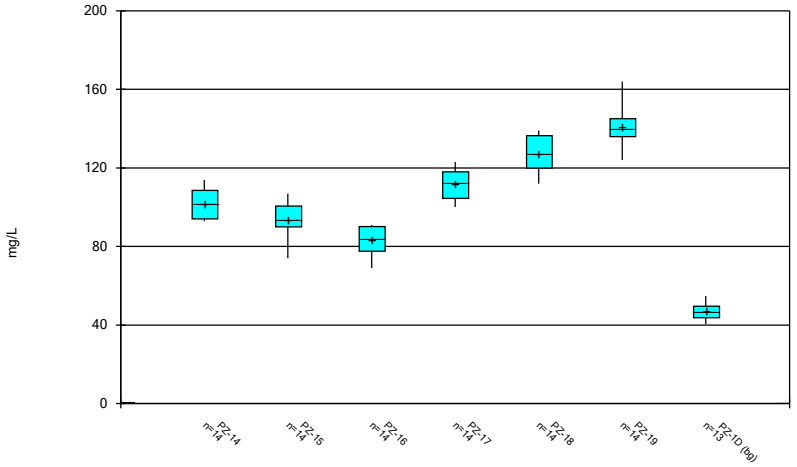


Constituent: Cadmium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

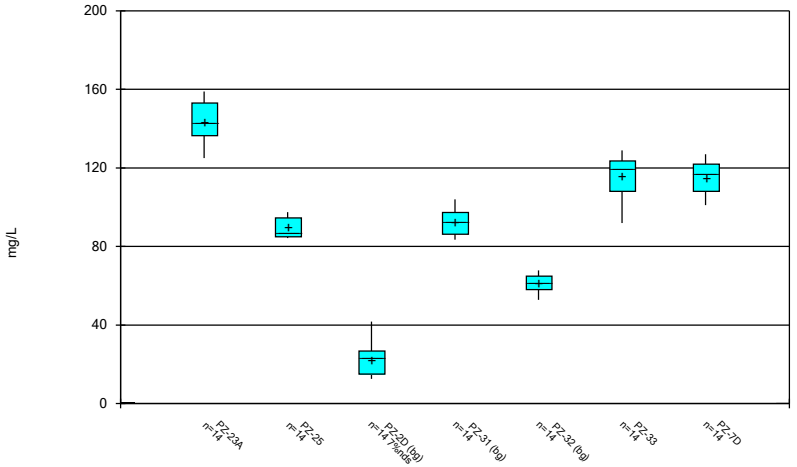


Constituent: Calcium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

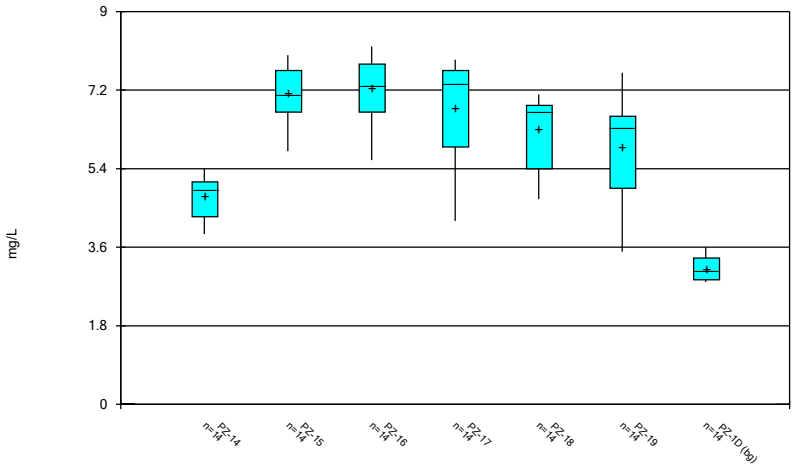


Constituent: Calcium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

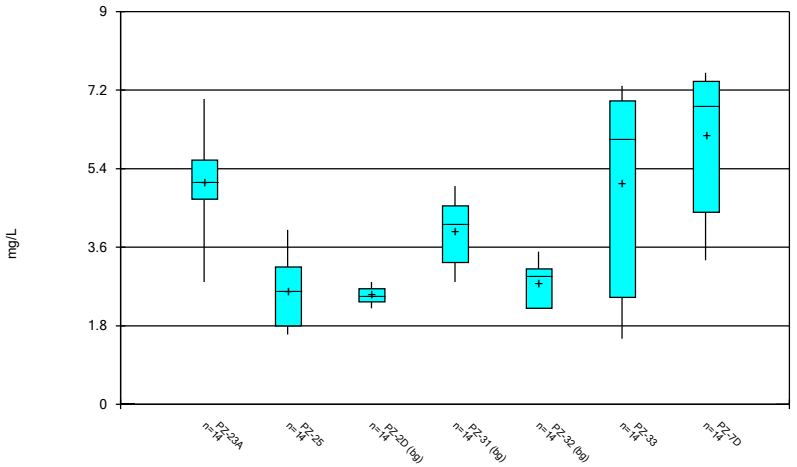


Constituent: Chloride Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

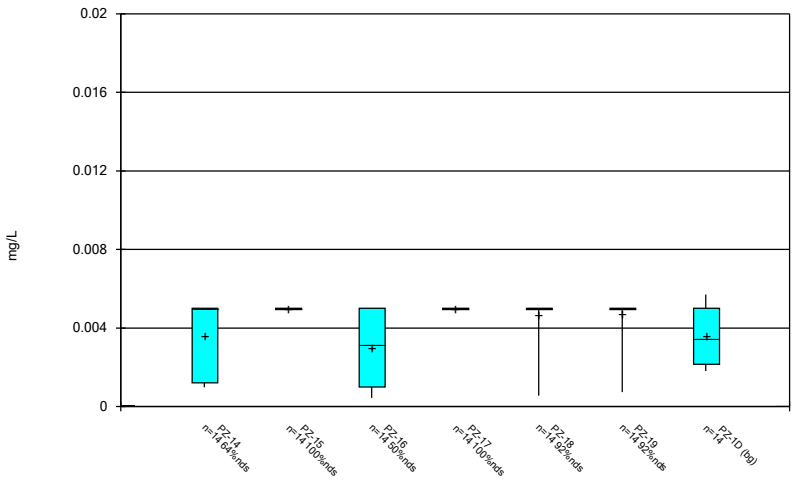


Constituent: Chloride Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

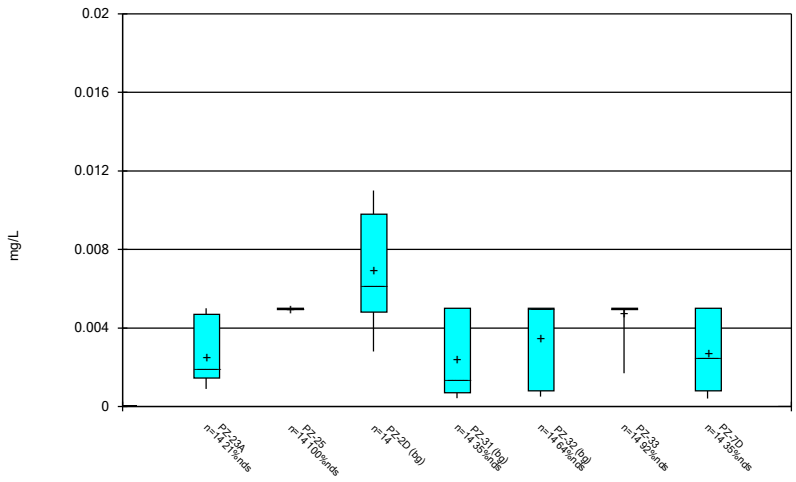


Constituent: Chromium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

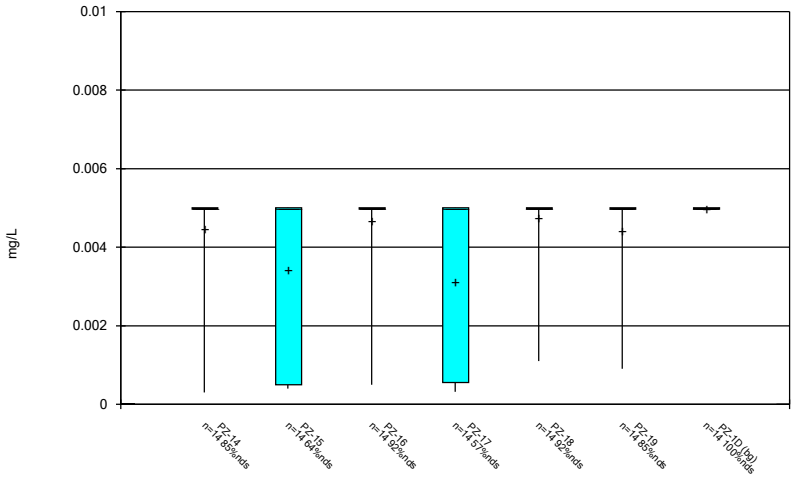


Constituent: Chromium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

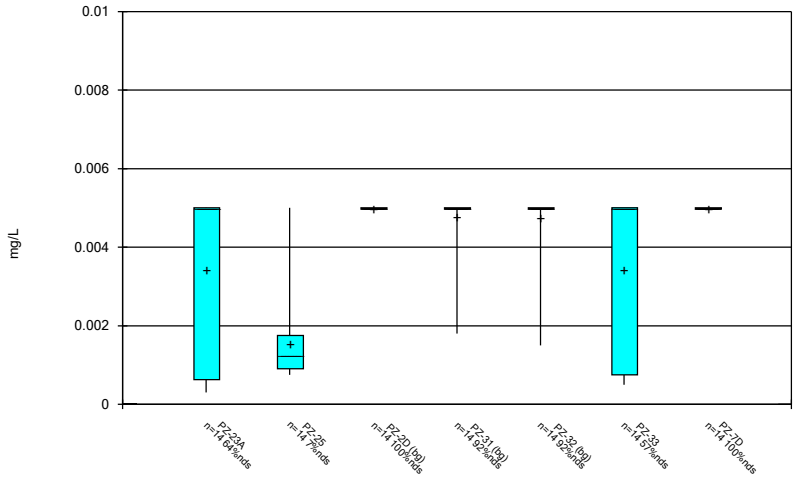


Constituent: Cobalt Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

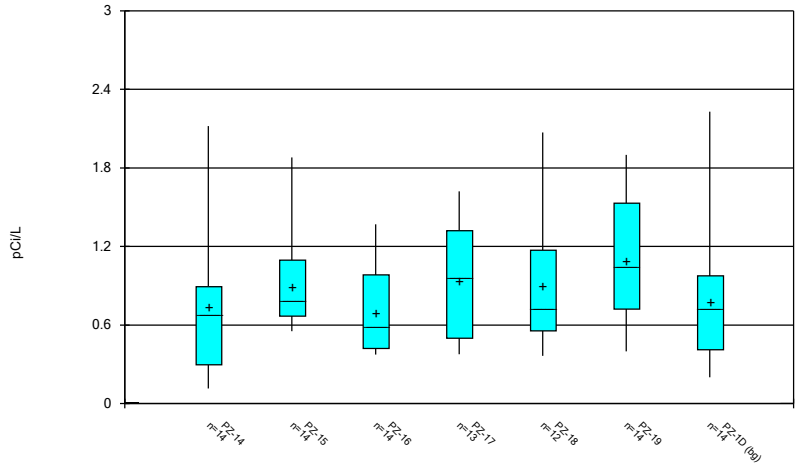


Constituent: Cobalt Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

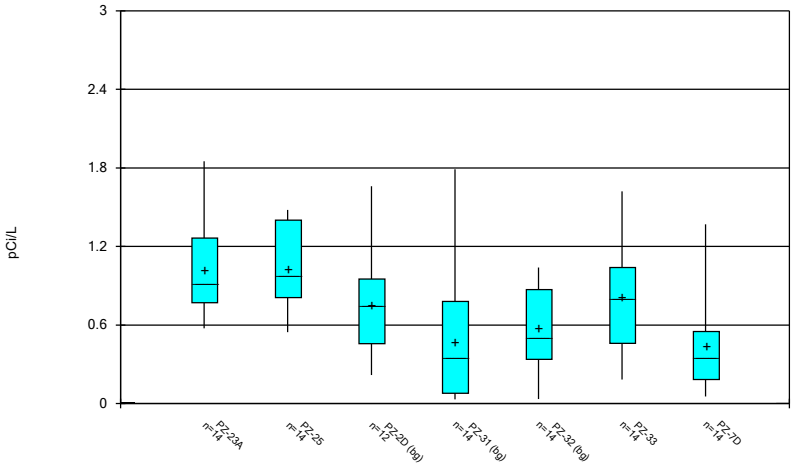


Constituent: Combined Radium 226 + 228 Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

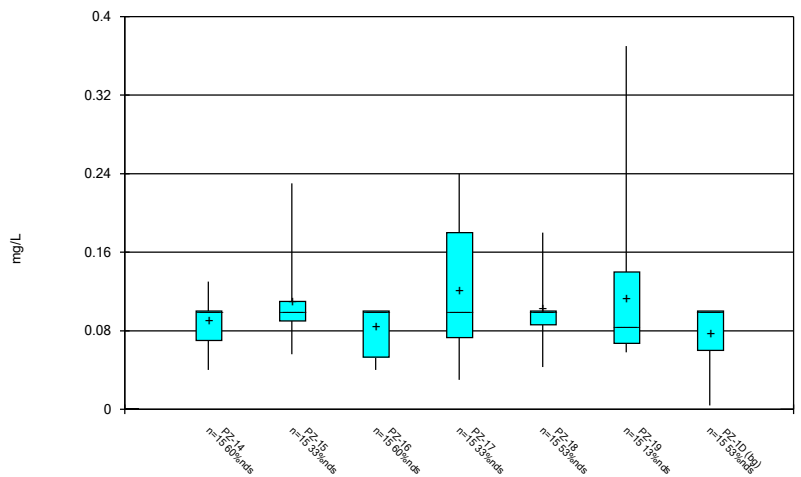


Constituent: Combined Radium 226 + 228 Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

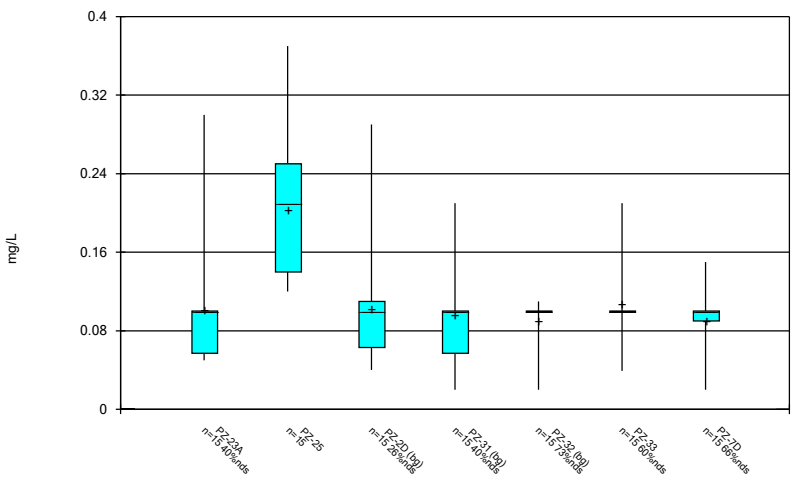


Constituent: Fluoride Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

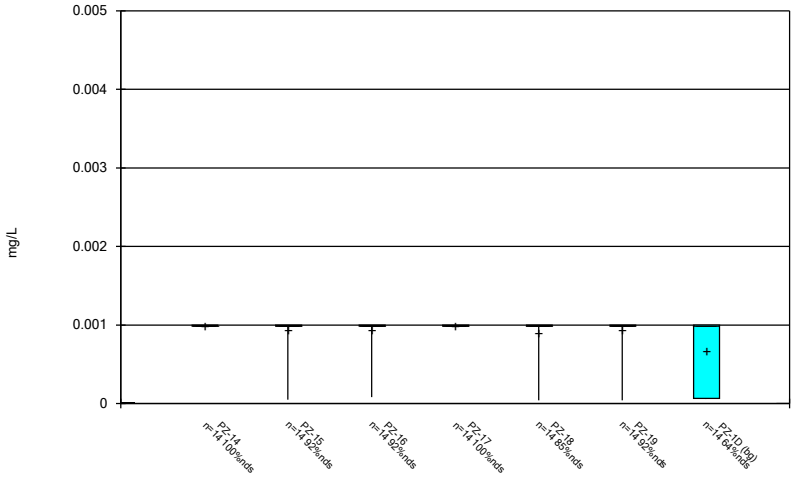


Constituent: Fluoride Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

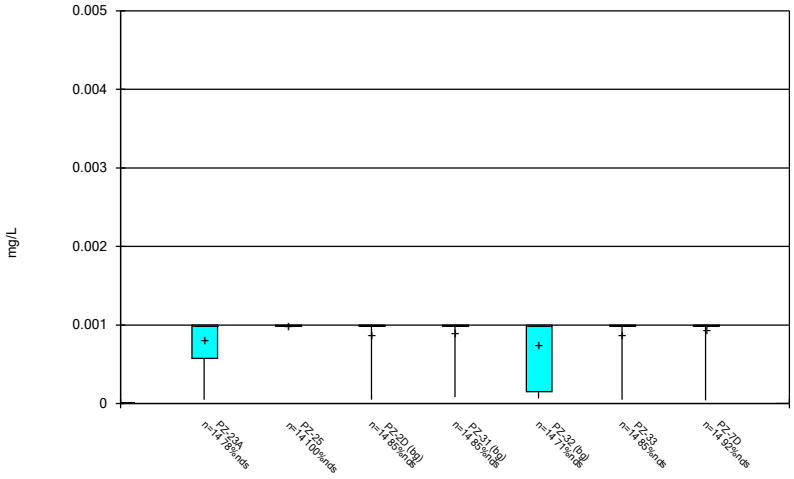


Constituent: Lead Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

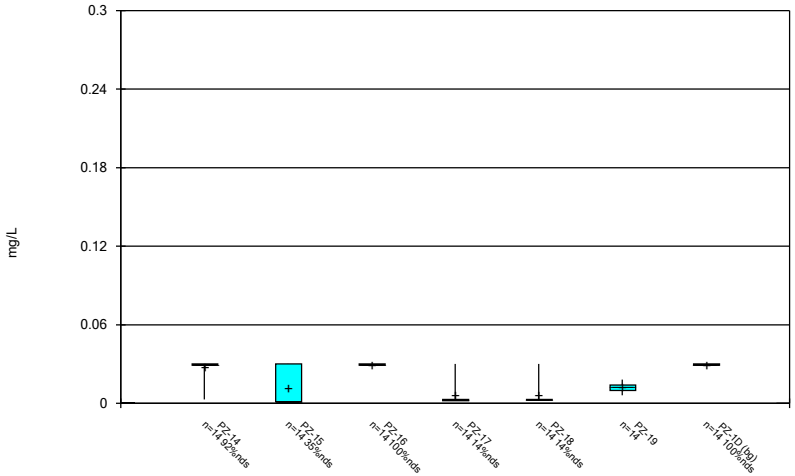


Constituent: Lead Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

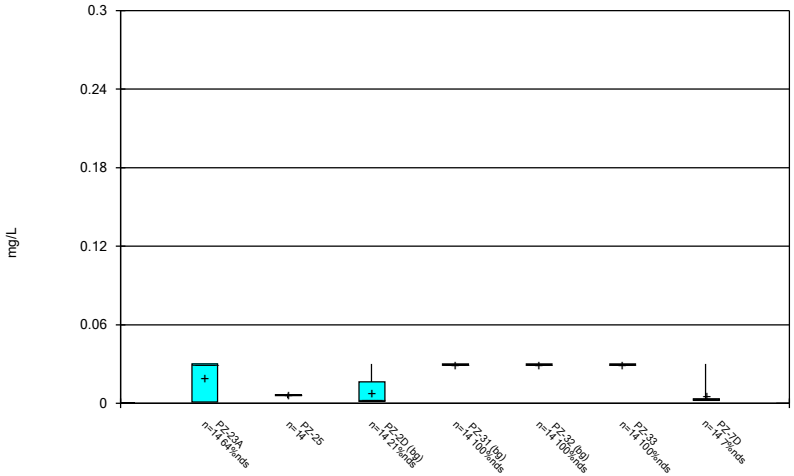


Constituent: Lithium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

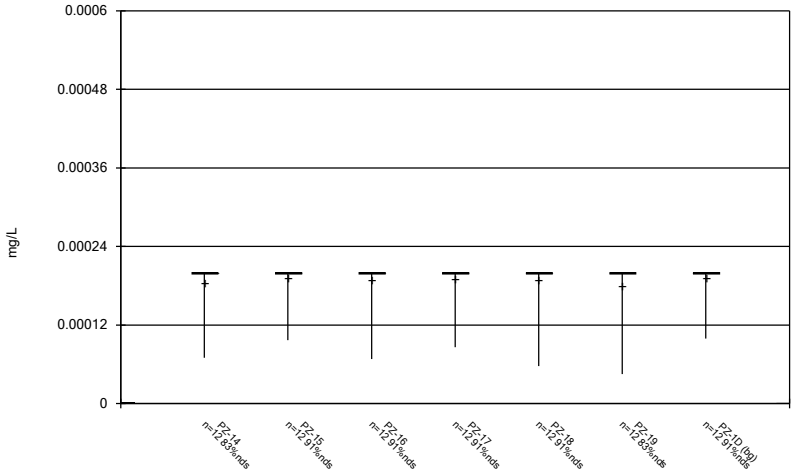


Constituent: Lithium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

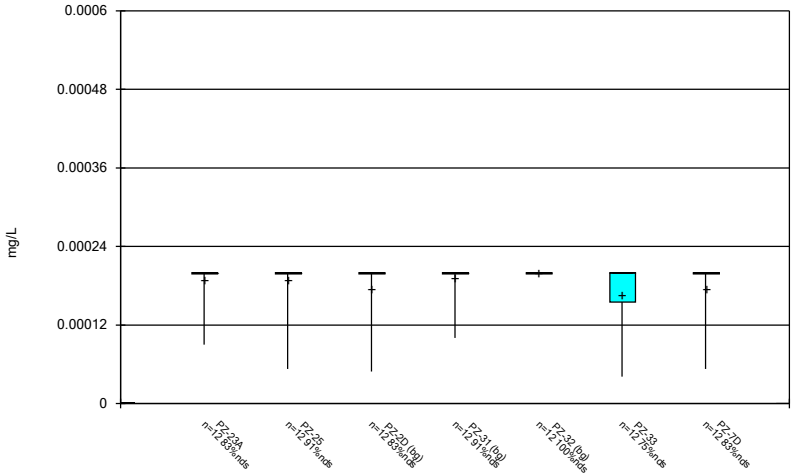


Constituent: Mercury Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

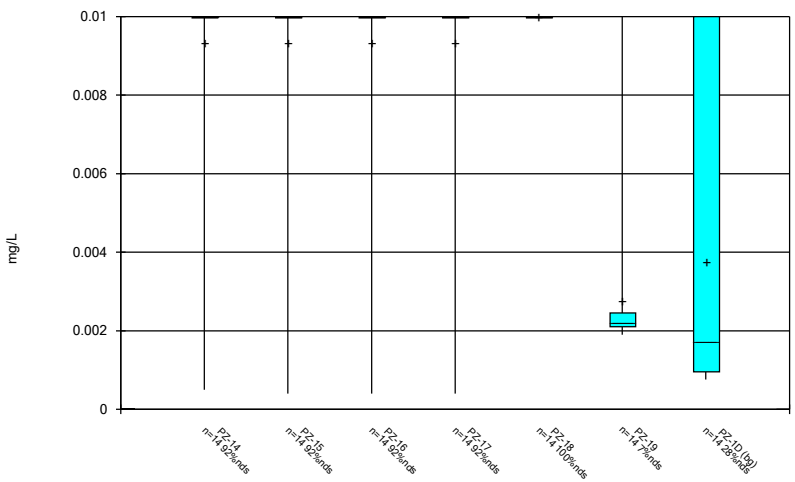


Constituent: Mercury Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

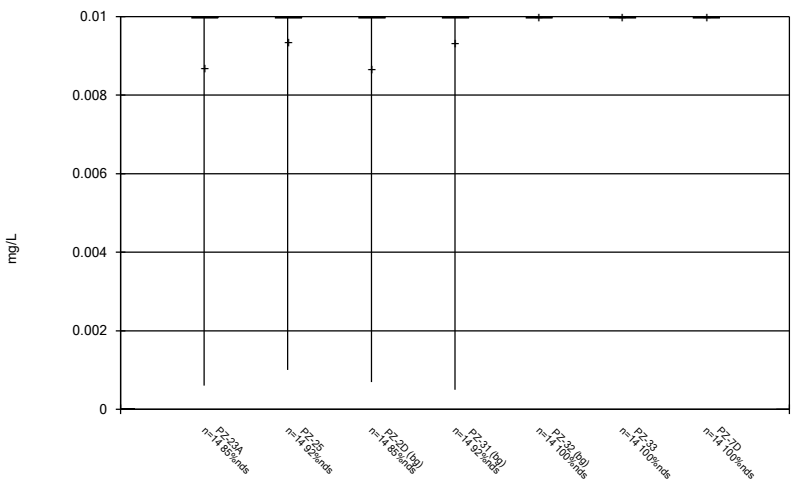


Constituent: Molybdenum Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

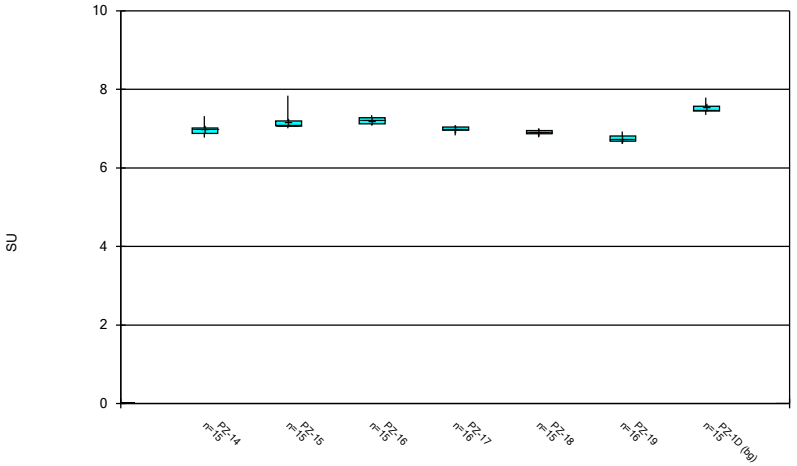


Constituent: Molybdenum Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

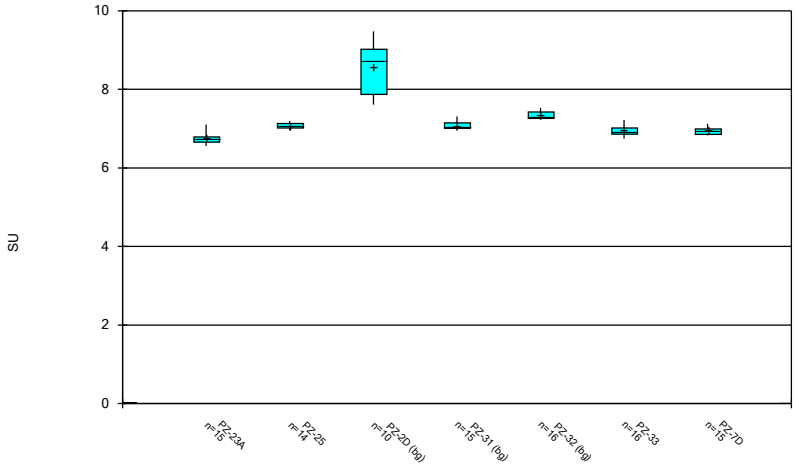


Constituent: pH Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

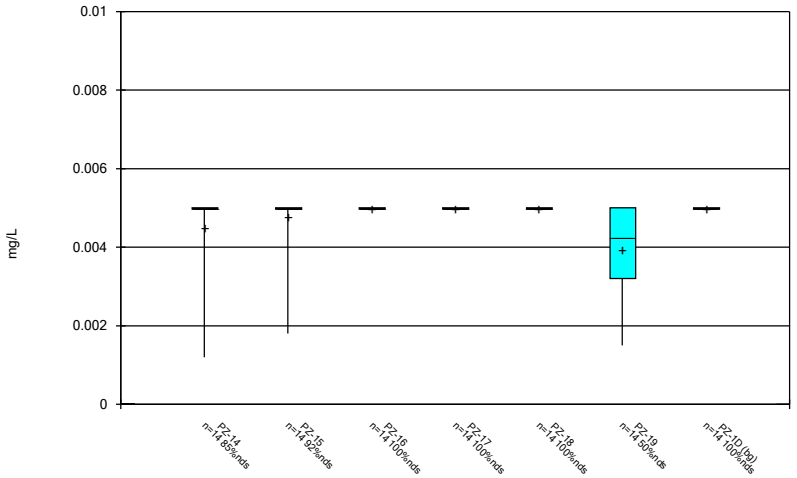


Constituent: pH Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

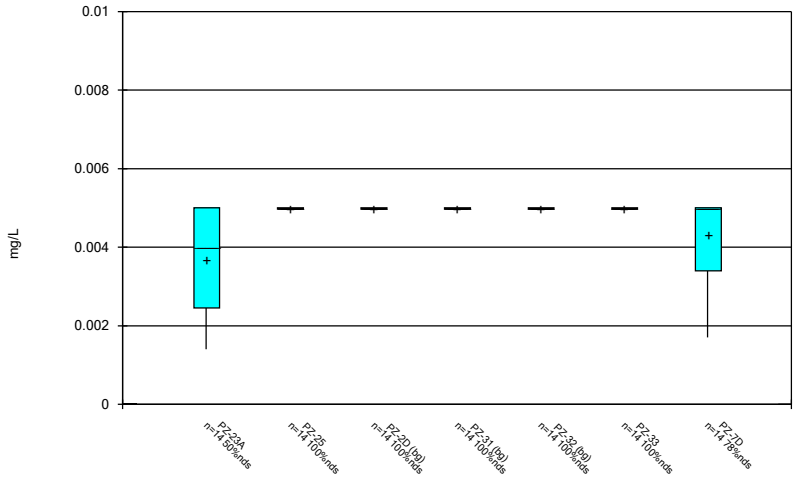


Constituent: Selenium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

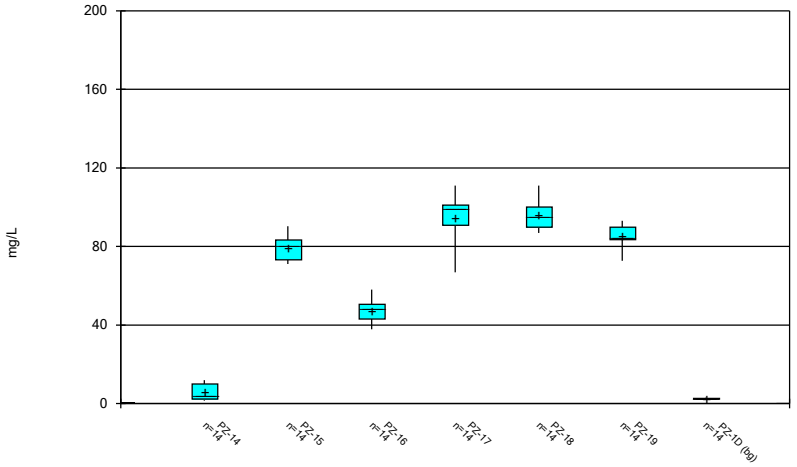


Constituent: Selenium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

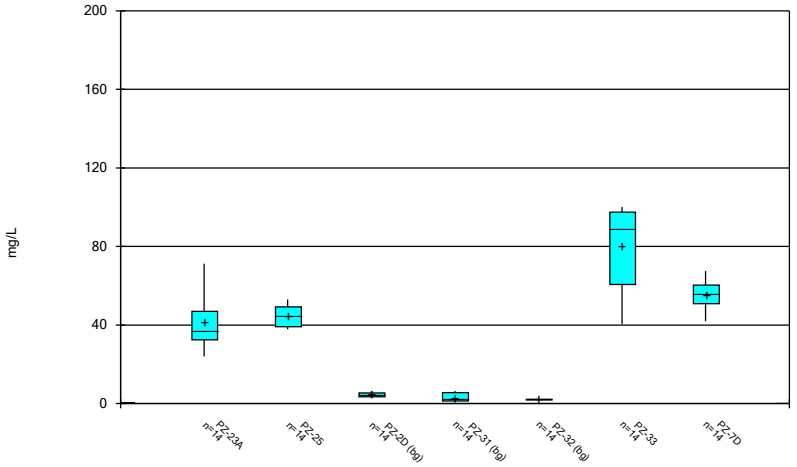


Constituent: Sulfate Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

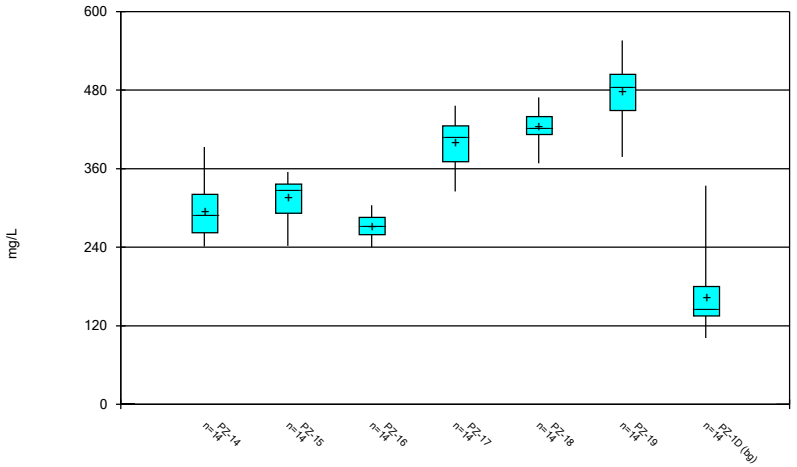


Constituent: Sulfate Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot

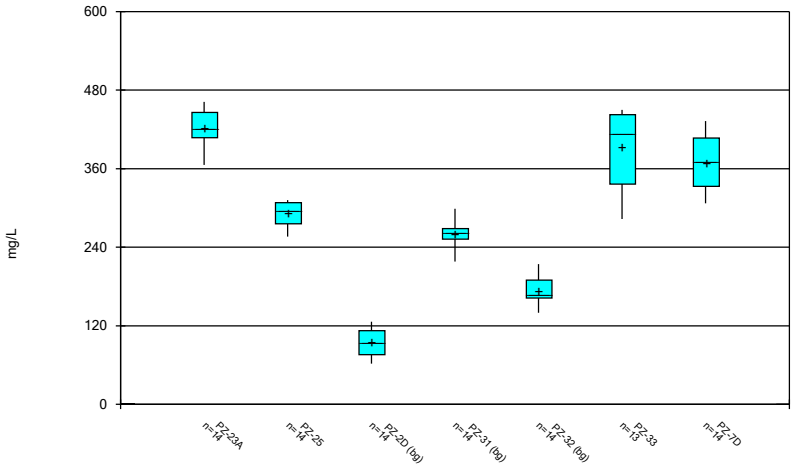


Constituent: TDS Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

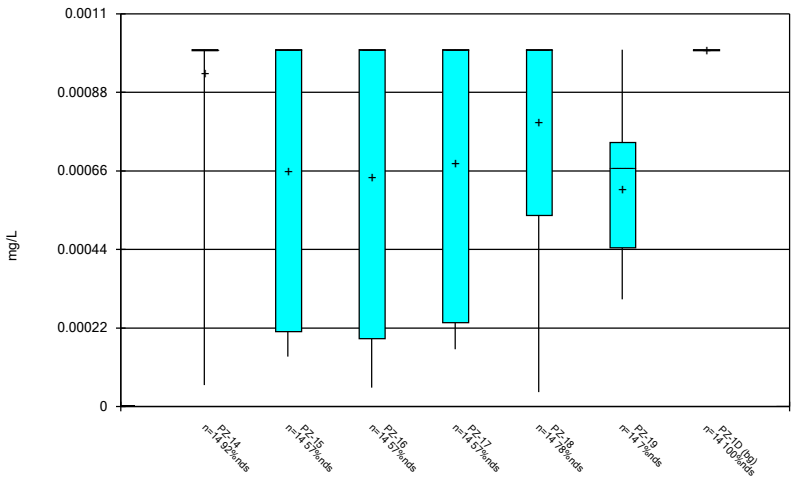
Box & Whiskers Plot



Constituent: TDS Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot

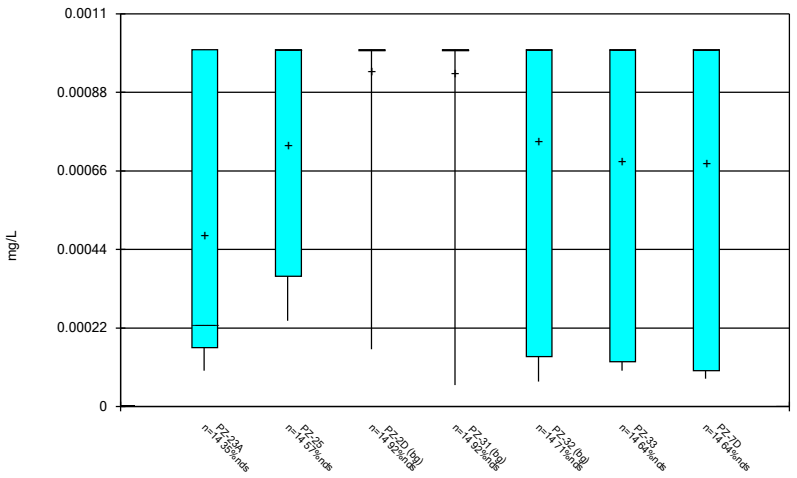


Constituent: Thallium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/5/2021 1:43 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

FIGURE C.

Outlier Summary

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/5/2021, 1:46 AM

	PZ-33 Barium (mg/L)	PZ-1D Calcium (mg/L)	PZ-33 pH (SU)	PZ-33 TDS (mg/L)
12/8/2016	0.162 (o)			503 (o)
7/11/2017			7.82 (o)	
7/11/2018		65.3 (o)		

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/8/2021, 3:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-15	0.02677	n/a	9/15/2021	0.16	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02677	n/a	9/15/2021	0.16	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02677	n/a	9/16/2021	0.22	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02677	n/a	9/16/2021	0.31	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02677	n/a	9/16/2021	0.46	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02677	n/a	9/15/2021	0.15	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02677	n/a	9/15/2021	0.17	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02677	n/a	9/16/2021	0.31	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02677	n/a	9/16/2021	0.18	Yes	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	109.2	n/a	9/16/2021	135	Yes	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	109.2	n/a	9/16/2021	137	Yes	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	109.2	n/a	9/15/2021	147	Yes	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	4.565	n/a	9/15/2021	5.8	Yes	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-16	4.565	n/a	9/15/2021	5.6	Yes	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.565	n/a	9/16/2021	4.7	Yes	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
pH (SU)	PZ-14	9.48	6.96	9/15/2021	6.94	Yes	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	9/16/2021	6.85	Yes	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	9/16/2021	6.77	Yes	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	9/15/2021	6.72	Yes	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	6.362	n/a	9/15/2021	11.4	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	6.362	n/a	9/15/2021	73.4	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	6.362	n/a	9/15/2021	37.8	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	6.362	n/a	9/16/2021	70.9	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	6.362	n/a	9/16/2021	86.9	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	6.362	n/a	9/16/2021	72.7	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	6.362	n/a	9/15/2021	46.8	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	6.362	n/a	9/15/2021	37.8	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	6.362	n/a	9/16/2021	40.4	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	6.362	n/a	9/16/2021	41.8	Yes	56	1.68	0.4175	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-15	309.7	n/a	9/15/2021	326	Yes	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	309.7	n/a	9/16/2021	330	Yes	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	309.7	n/a	9/16/2021	419	Yes	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	309.7	n/a	9/16/2021	450	Yes	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	309.7	n/a	9/15/2021	422	Yes	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/8/2021, 3:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-14	0.02677	n/a	9/15/2021	0.022J	No	56	-4.32	0.3468	7.143	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	**PZ-15**	**0.02677**	**n/a**	**9/15/2021**	**0.16**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-16**	**0.02677**	**n/a**	**9/15/2021**	**0.16**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-17**	**0.02677**	**n/a**	**9/16/2021**	**0.22**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-18**	**0.02677**	**n/a**	**9/16/2021**	**0.31**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-19**	**0.02677**	**n/a**	**9/16/2021**	**0.46**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-23A**	**0.02677**	**n/a**	**9/15/2021**	**0.15**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-25**	**0.02677**	**n/a**	**9/15/2021**	**0.17**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-33**	**0.02677**	**n/a**	**9/16/2021**	**0.31**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-7D**	**0.02677**	**n/a**	**9/16/2021**	**0.18**	**Yes**	**56**	**-4.32**	**0.3468**	**7.143**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-14	109.2	n/a	9/15/2021	106	No	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-15	109.2	n/a	9/15/2021	94	No	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-16	109.2	n/a	9/15/2021	91	No	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-17	109.2	n/a	9/16/2021	102	No	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	**PZ-18**	**109.2**	**n/a**	**9/16/2021**	**135**	**Yes**	**55**	**55.95**	**26.35**	**1.818**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-19**	**109.2**	**n/a**	**9/16/2021**	**137**	**Yes**	**55**	**55.95**	**26.35**	**1.818**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-23A**	**109.2**	**n/a**	**9/15/2021**	**147**	**Yes**	**55**	**55.95**	**26.35**	**1.818**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-25	109.2	n/a	9/15/2021	84.4	No	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-33	109.2	n/a	9/16/2021	92	No	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-7D	109.2	n/a	9/16/2021	109	No	55	55.95	26.35	1.818	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-14	4.565	n/a	9/15/2021	3.9	No	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	**PZ-15**	**4.565**	**n/a**	**9/15/2021**	**5.8**	**Yes**	**56**	**1.748**	**0.1928**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-16**	**4.565**	**n/a**	**9/15/2021**	**5.6**	**Yes**	**56**	**1.748**	**0.1928**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	PZ-17	4.565	n/a	9/16/2021	4.2	No	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	**PZ-18**	**4.565**	**n/a**	**9/16/2021**	**4.7**	**Yes**	**56**	**1.748**	**0.1928**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	PZ-19	4.565	n/a	9/16/2021	3.5	No	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-23A	4.565	n/a	9/15/2021	2.8	No	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-25	4.565	n/a	9/15/2021	1.8	No	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-33	4.565	n/a	9/16/2021	1.5	No	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-7D	4.565	n/a	9/16/2021	3.3	No	56	1.748	0.1928	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	9/15/2021	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	9/15/2021	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	9/15/2021	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	9/16/2021	0.052J	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	9/16/2021	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	9/16/2021	0.067J	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	9/15/2021	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	9/15/2021	0.14	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	9/16/2021	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	9/16/2021	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
pH (SU)	**PZ-14**	**9.48**	**6.96**	**9/15/2021**	**6.94**	**Yes**	**56**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001205**	**NP Inter (normality) 1 of 2**
pH (SU)	PZ-15	9.48	6.96	9/15/2021	7.09	No	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	PZ-16	9.48	6.96	9/15/2021	7.12	No	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	9/16/2021	7.03	No	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	**PZ-18**	**9.48**	**6.96**	**9/16/2021**	**6.85**	**Yes**	**56**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001205**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-19**	**9.48**	**6.96**	**9/16/2021**	**6.77**	**Yes**	**56**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001205**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-23A**	**9.48**	**6.96**	**9/15/2021**	**6.72**	**Yes**	**56**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001205**	**NP Inter (normality) 1 of 2**
pH (SU)	PZ-25	9.48	6.96	9/15/2021	7.05	No	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	9/16/2021	7.1	No	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	9/16/2021	6.96	No	56	n/a	n/a	0	n/a	n/a	0.001205	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/8/2021, 3:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	**PZ-14**	**6.362**	**n/a**	**9/15/2021**	**11.4**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-15**	**6.362**	**n/a**	**9/15/2021**	**73.4**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-16**	**6.362**	**n/a**	**9/15/2021**	**37.8**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-17**	**6.362**	**n/a**	**9/16/2021**	**70.9**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-18**	**6.362**	**n/a**	**9/16/2021**	**86.9**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-19**	**6.362**	**n/a**	**9/16/2021**	**72.7**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-23A**	**6.362**	**n/a**	**9/15/2021**	**46.8**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-25**	**6.362**	**n/a**	**9/15/2021**	**37.8**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-33**	**6.362**	**n/a**	**9/16/2021**	**40.4**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-7D**	**6.362**	**n/a**	**9/16/2021**	**41.8**	**Yes**	**56**	**1.68**	**0.4175**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-14	309.7	n/a	9/15/2021	292	No	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-15**	**309.7**	**n/a**	**9/15/2021**	**326**	**Yes**	**56**	**172.8**	**67.84**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-16	309.7	n/a	9/15/2021	270	No	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-17**	**309.7**	**n/a**	**9/16/2021**	**330**	**Yes**	**56**	**172.8**	**67.84**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-18**	**309.7**	**n/a**	**9/16/2021**	**419**	**Yes**	**56**	**172.8**	**67.84**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-19**	**309.7**	**n/a**	**9/16/2021**	**450**	**Yes**	**56**	**172.8**	**67.84**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-23A**	**309.7**	**n/a**	**9/15/2021**	**422**	**Yes**	**56**	**172.8**	**67.84**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-25	309.7	n/a	9/15/2021	272	No	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-33	309.7	n/a	9/16/2021	296	No	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-7D	309.7	n/a	9/16/2021	307	No	56	172.8	67.84	0	None	No	0.0007523	Param Inter 1 of 2

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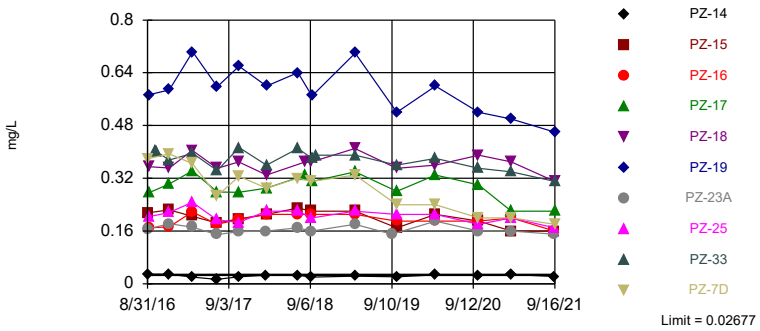
Exceeds Limit: PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-7D

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-4.32, Std. Dev.=0.3468, n=56, 7.143% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9531, critical = 0.942. Kappa = 2.018 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: Boron Analysis Run 11/8/2021 3:44 PM View: Appendix III - Interwell PLs

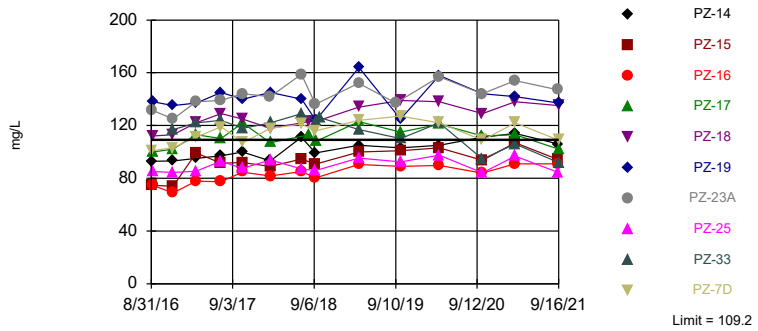
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Exceeds Limit: PZ-18, PZ-19, PZ-23A

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=55.95, Std. Dev.=26.35, n=55, 1.818% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.966, critical = 0.94. Kappa = 2.02 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: Calcium Analysis Run 11/8/2021 3:44 PM View: Appendix III - Interwell PLs

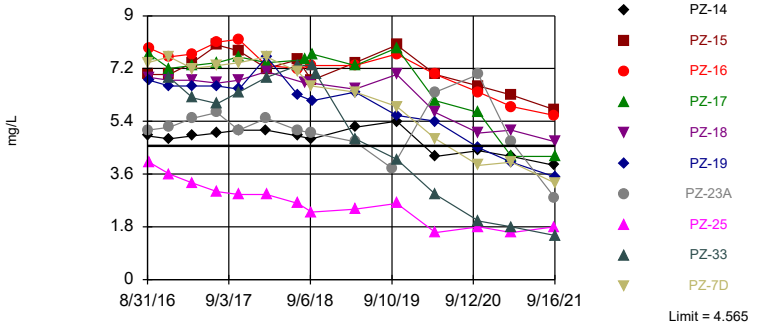
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Exceeds Limit: PZ-15, PZ-16, PZ-18

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=1.748, Std. Dev.=0.1928, n=56. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9425, critical = 0.942. Kappa = 2.018 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: Chloride Analysis Run 11/8/2021 3:44 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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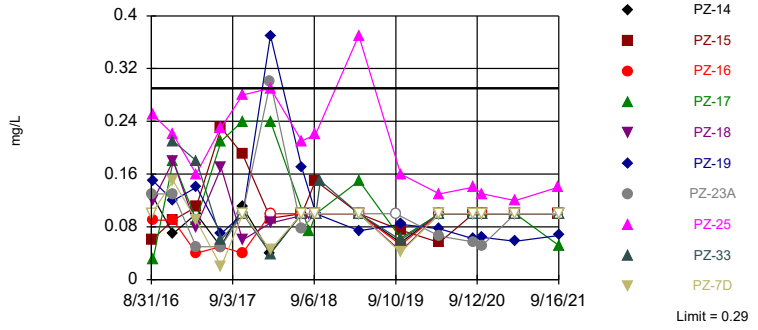
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. 48.33% NDs. Annual per-constituent alpha = 0.01029. Individual comparison alpha = 0.000517 (1 of 2). Comparing 10 points to limit.

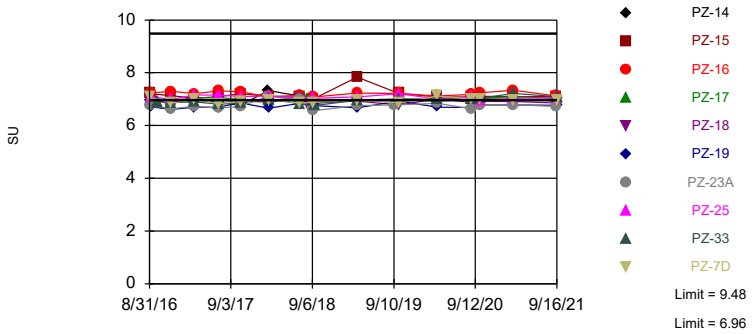
Constituent: Fluoride Analysis Run 11/8/2021 3:44 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Exceeds Limits: PZ-14, PZ-18, PZ-19, PZ-23A

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 56 background values. Annual per-constituent alpha = 0.02396. Individual comparison alpha = 0.001205 (1 of 2). Comparing 10 points to limit.

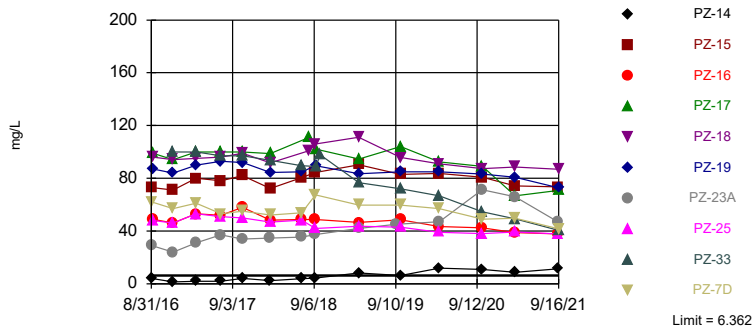
Constituent: pH Analysis Run 11/8/2021 3:44 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Exceeds Limit: PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-7D

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=1.68, Std. Dev.=0.4175, n=56. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9475, critical = 0.942. Kappa = 2.018 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

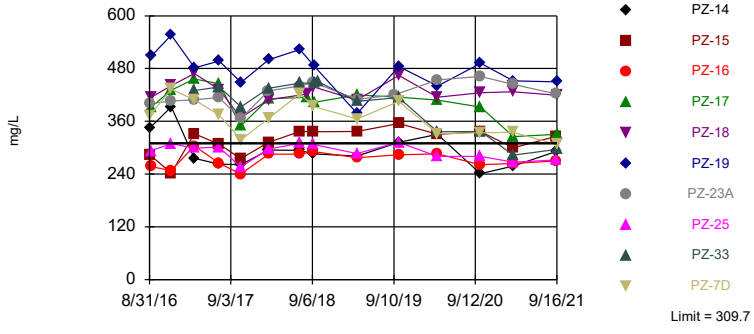
Constituent: Sulfate Analysis Run 11/8/2021 3:44 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Exceeds Limit: PZ-15, PZ-17, PZ-18, PZ-19, PZ-23A

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=172.8, Std. Dev.=67.84, n=56. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9654, critical = 0.942. Kappa = 2.018 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: TDS Analysis Run 11/8/2021 3:44 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/30/2016	0.0132 (J)								
8/31/2016		0.0285 (J)	0.166						
9/1/2016				0.379	0.215				
9/6/2016						0.17			
9/7/2016							0.276	0.355	0.573
9/8/2016									
10/5/2016									
10/10/2016									
10/18/2016									
12/6/2016	0.0096 (J)								
12/7/2016		0.0292 (J)	0.182	0.394	0.224	0.173			
12/8/2016							0.303	0.351	0.588
3/21/2017	0.0082 (J)	0.0198 (J)	0.172						
3/22/2017				0.365	0.205	0.218	0.342	0.405	
3/23/2017									0.703
7/11/2017	0.0067 (J)	0.0137 (J)	0.149			0.18			
7/12/2017				0.267	0.184		0.278	0.35	0.598
10/17/2017	0.0083 (J)								
10/18/2017		0.0212 (J)	0.158		0.197	0.195	0.277	0.37	
10/19/2017				0.326					0.66
2/20/2018	0.024 (J)	0.026 (J)	0.16						
2/21/2018				0.29	0.21	0.21	0.29	0.33	0.6
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	0.017 (J)	0.026 (J)	0.17						
7/12/2018				0.32	0.23	0.21			0.64
8/15/2018								0.37	
8/16/2018							0.33		
8/17/2018									
9/12/2018	0.012 (J)	0.02 (J)							
9/13/2018			0.16	0.31	0.22	0.21		0.37	
9/14/2018							0.31		0.57
10/4/2018									
10/24/2018									
3/26/2019	0.0082								
3/27/2019		0.023	0.18			0.21		0.41	
3/28/2019				0.33	0.22		0.34		0.7
9/10/2019			0.15						
10/1/2019	0.0064 (X)								
10/2/2019		0.021 (X)			0.17	0.19	0.28		
10/3/2019				0.24				0.35	0.52
3/24/2020	0.013 (J)								
3/25/2020		0.027 (J)	0.19				0.33		
3/26/2020				0.24	0.21	0.19		0.36	0.6
10/6/2020	0.015 (J)	0.026 (J)	0.16			0.19			
10/7/2020				0.2	0.19		0.3	0.39	0.52
3/3/2021	0.01 (J)	0.028 (J)	0.16						0.5
3/4/2021				0.2	0.16	0.2	0.22	0.37	
3/8/2021									
9/14/2021	<0.04								
9/15/2021		0.022 (J)	0.15		0.16	0.16			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
9/16/2021				0.18			0.22	0.31	0.46

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-32 (bg)	PZ-31 (bg)	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	0.204				
10/5/2016		0.404			
10/10/2016		0.401			
10/18/2016			0.0156 (J)	0.0174 (J)	
12/6/2016				0.0133 (J)	
12/7/2016			0.0157 (J)		
12/8/2016	0.216	0.375			
3/21/2017				0.0103 (J)	
3/22/2017	0.247				
3/23/2017		0.396	0.0103 (J)		
7/11/2017	0.194		<0.04	<0.04	
7/12/2017		0.343			
10/17/2017			0.0142 (J)	0.0116 (J)	
10/18/2017	0.186				
10/19/2017		0.413			
2/20/2018			0.011 (J)	0.046 (J)	
2/21/2018	0.22	0.36			
4/12/2018					0.016 (J)
5/23/2018					0.018 (J)
6/13/2018					0.014 (J)
7/11/2018			0.014 (J)	0.014 (J)	0.017 (J)
7/12/2018	0.22	0.41			
8/15/2018					
8/16/2018					
8/17/2018					0.015 (J)
9/12/2018				0.0098 (J)	0.013 (J)
9/13/2018	0.2		0.013 (J)		
9/14/2018		0.38			
10/4/2018		0.39			0.016 (J)
10/24/2018					0.018 (J)
3/26/2019				0.0076	
3/27/2019	0.22		0.012		0.016
3/28/2019		0.39			
9/10/2019					
10/1/2019			0.011 (X)		
10/2/2019	0.21			0.0084 (X)	0.011 (X)
10/3/2019		0.36			
3/24/2020					0.015 (J)
3/25/2020	0.21		0.016 (J)	0.011 (J)	
3/26/2020		0.38			
10/6/2020			0.015 (J)	0.011 (J)	0.018 (J)
10/7/2020	0.18	0.35			
3/3/2021	0.2		0.022 (J)	0.0087 (J)	
3/4/2021		0.34			
3/8/2021					0.013 (J)
9/14/2021			0.012 (J)		0.011 (J)
9/15/2021	0.17			<0.04	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-32 (bg)	PZ-31 (bg)	PZ-2D (bg)
9/16/2021		0.31			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/30/2016	40.4								
8/31/2016		92.9	132						
9/1/2016				101	74.8				
9/6/2016						74.6			
9/7/2016							100	112	138
9/8/2016									
10/18/2016									
12/6/2016	43.3								
12/7/2016		93.1	125	103	74	68.9			
12/8/2016							102	113	135
3/21/2017	44.1	95	138						
3/22/2017				111	99.3	77.8	113	122	
3/23/2017									137
7/11/2017	47.4	97.1	139			77.3			
7/12/2017				119	91.4		110	129	145
10/17/2017	48.7								
10/18/2017		100	144		92	84.7	122	125	
10/19/2017				107					140
2/20/2018	46.8	93.1	142						
2/21/2018				118	89	81.8	107	118	145
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	65.3 (o)	111	159						
7/12/2018				121	94.5	85.2			140
8/15/2018								123	
8/16/2018							113		
8/17/2018									
9/12/2018	46.6	99.3							
9/13/2018			136	116	90.8	80.2		123	
9/14/2018							108		124
10/4/2018									
10/24/2018									
3/26/2019	43.3								
3/27/2019		105	152			90.5		134	
3/28/2019				124	100		123		164
9/10/2019			137						
10/1/2019	46.8								
10/2/2019		103			101	89.1	115		
10/3/2019				127				139	125
3/24/2020	48								
3/25/2020		105	157				121		
3/26/2020				122	103	89.8		138	158
10/6/2020	50.5	111	144			84			
10/7/2020				109	93.5		112	129	144
3/3/2021	54.7	114	154						142
3/4/2021				122	107	90.9	113	138	
3/8/2021									
9/14/2021	51								
9/15/2021		106	147		94	91			
9/16/2021				109			102	135	137

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	85.2				
10/18/2016		57.2	88.3		
12/6/2016			83.4		
12/7/2016		52.8			
12/8/2016	84.5			117	
3/21/2017			94		
3/22/2017	85.3				
3/23/2017		59.1		122	
7/11/2017	93	59.7	86		
7/12/2017				124	
10/17/2017		64.9	91.6		
10/18/2017	87.6				
10/19/2017				118	
2/20/2018		64.1	86.5		
2/21/2018	93.9			122	
4/12/2018					<25
5/23/2018					17.6 (J)
6/13/2018					14.3
7/11/2018		60.4	95.4		15.6
7/12/2018	87.1			129	
8/15/2018					
8/16/2018					
8/17/2018					27
9/12/2018			86		26.9
9/13/2018	85.8	58.7			
9/14/2018				123	
10/4/2018				126	25
10/24/2018					23.8
3/26/2019			87.3		
3/27/2019	95.2	54.6			26.1
3/28/2019				117	
9/10/2019					
10/1/2019		64.3			
10/2/2019	92.3		95.5		21
10/3/2019				110	
3/24/2020					26.5
3/25/2020	97.5	66.6	95.8		
3/26/2020				122	
10/6/2020		62.8	98.8		22.7
10/7/2020	84.2			94.7	
3/3/2021	96.8	64.8 (M1)	104		
3/4/2021				106	
3/8/2021					41.7
9/14/2021		67.8			13.4
9/15/2021	84.4		101		
9/16/2021				92	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-17	PZ-18	PZ-19
8/30/2016	3.1								
8/31/2016		4.9	5.1						
9/1/2016				7	7.4				
9/6/2016						7.9			
9/7/2016							7.7	6.9	6.8
9/8/2016									
10/18/2016									
12/6/2016	3.4								
12/7/2016		4.8	5.2	7	7.6	7.6			
12/8/2016							7.2	6.8	6.6
3/21/2017	2.9	4.9	5.5						
3/22/2017				7.4	7.2	7.7	7.3	6.8	
3/23/2017									6.6
7/11/2017	3.4	5	5.7			8.1			
7/12/2017				8	7.3		7.4	6.7	6.6
10/17/2017	3.3								
10/18/2017		5.1	5.1	7.8		8.2	7.6	6.8	
10/19/2017					7.4				6.5
2/20/2018	3.3	5.1	5.5						
2/21/2018				7.2	7.6	7.3	7.4	7.1	7.6
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	2.9	4.9	5.1						
7/12/2018				7.5	7.1	7.2			6.3
8/15/2018								6.7	
8/16/2018							7.5		
8/17/2018									
9/12/2018	2.8	4.8							
9/13/2018			5	6.8	6.6	7.3		6.7	
9/14/2018							7.7		6.1
10/4/2018									
10/24/2018									
3/26/2019	3.3								
3/27/2019		5.2	4.7			7.3		6.5	
3/28/2019				7.4	6.4		7.3		6.4
9/10/2019			3.8						
10/1/2019	3.6								
10/2/2019		5.4		8		7.7	7.9		
10/3/2019					5.9			7	5.6
3/24/2020	2.8								
3/25/2020		4.2	6.4				6.1		
3/26/2020				7	4.8	7		5.7	5.4
10/6/2020	3	4.4	7			6.4			
10/7/2020				6.6	3.9		5.7	5	4.5
3/3/2021	2.8	4.2	4.7						4
3/4/2021				6.3	4	5.9	4.2	5.1	
3/8/2021									
9/14/2021	2.9								
9/15/2021		3.9	2.8	5.8		5.6			
9/16/2021					3.3		4.2	4.7	3.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	4				
10/18/2016		4.5	3.5		
12/6/2016		5			
12/7/2016			3.2		
12/8/2016	3.6			6.9	
3/21/2017		4.3			
3/22/2017	3.3				
3/23/2017			2.9	6.2	
7/11/2017	3	4.7	3.1		
7/12/2017				6	
10/17/2017		4.6	3		
10/18/2017	2.9				
10/19/2017				6.4	
2/20/2018		4.4	3		
2/21/2018	2.9			6.9	
4/12/2018					2.6
5/23/2018					2.5
6/13/2018					2.5
7/11/2018		4	2.8		2.6
7/12/2018	2.6			7.3	
8/15/2018					
8/16/2018					
8/17/2018					2.6
9/12/2018		3.7			2.3
9/13/2018	2.3		2.2		
9/14/2018				7.3	
10/4/2018				7	2.7
10/24/2018					2.8
3/26/2019		3.8			
3/27/2019	2.4		3.1		2.5
3/28/2019				4.8	
9/10/2019					
10/1/2019			3.1		
10/2/2019	2.6	4.3			2.7
10/3/2019				4.1	
3/24/2020					2.2
3/25/2020	1.6	3	2.2		
3/26/2020				2.9	
10/6/2020		3.4	2.3		2.3
10/7/2020	1.8			2	
3/3/2021	1.6	3.1	2.2		
3/4/2021				1.8	
3/8/2021					2.4
9/14/2021			2.2		2.5
9/15/2021	1.8	2.8			
9/16/2021				1.5	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-19	PZ-18	PZ-17
8/30/2016	0.06 (J)								
8/31/2016		0.13 (J)	0.13 (J)						
9/1/2016				0.06 (J)	<0.1				
9/6/2016						0.09 (J)			
9/7/2016							0.15 (J)	0.12 (J)	0.03 (J)
9/8/2016									
10/18/2016									
12/6/2016	0.06 (J)								
12/7/2016		0.07 (J)	0.13 (J)	0.09 (J)	0.15 (J)	0.09 (J)			
12/8/2016							0.12 (J)	0.18 (J)	0.18 (J)
3/21/2017	0.004 (J)	<0.1	0.05 (J)						
3/22/2017				0.11 (J)	0.09 (J)	0.04 (J)		0.08 (J)	0.09 (J)
3/23/2017							0.14 (J)		
7/11/2017	0.05 (J)	0.05 (J)	0.05 (J)			0.05 (J)			
7/12/2017				0.23 (J)	0.02 (J)		0.07 (J)	0.17 (J)	0.21 (J)
10/17/2017	<0.1								
10/18/2017		0.11 (J)	<0.1	0.19 (J)		0.04 (J)		0.06 (J)	0.24 (J)
10/19/2017					<0.1		<0.1		
2/20/2018	0.098 (J)	0.04 (J)	0.3 (J)						
2/21/2018				0.093 (J)	0.045 (J)	<0.1	0.37	0.086 (J)	0.24 (J)
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	<0.1	<0.1	0.077 (J)						
7/12/2018				<0.1	<0.1	<0.1	0.17 (J)		
8/15/2018								<0.1	
8/16/2018									0.073 (J)
8/17/2018									
9/12/2018	0.034 (J)	<0.1							
9/13/2018			<0.1	0.15 (J)	<0.1	<0.1		<0.1	
9/14/2018							<0.1		<0.1
10/4/2018									
10/24/2018									
3/26/2019	<0.1								
3/27/2019		<0.1	<0.1			<0.1		<0.1	
3/28/2019				0.1	<0.1		0.074		0.15
9/10/2019			<0.1						
10/1/2019	0.062 (X)								
10/2/2019		0.056 (X)		0.075 (X)		0.053 (X)			0.063 (X)
10/3/2019					0.041 (X)		0.084 (X)	0.043 (X)	
3/24/2020	<0.1								
3/25/2020		<0.1	0.066 (J)						<0.1
3/26/2020				0.056 (J)	<0.1	<0.1	0.077 (J)	<0.1	
8/25/2020	<0.1								
8/26/2020		<0.1	0.057 (J)	<0.1	<0.1	<0.1	0.062 (J)		<0.1
8/27/2020								<0.1	
10/6/2020	<0.1	<0.1	0.052 (J)			<0.1			
10/7/2020				<0.1	<0.1		0.064 (J)	<0.1	<0.1
3/3/2021	<0.1	<0.1	<0.1				0.058 (J)		
3/4/2021				<0.1	<0.1	<0.1		<0.1	<0.1
3/8/2021									
9/14/2021	<0.1								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-19	PZ-18	PZ-17
9/15/2021		<0.1	<0.1	<0.1		<0.1			
9/16/2021					<0.1		0.067 (J)	<0.1	0.052 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	0.25 (J)				
10/18/2016		0.16 (J)	0.11 (J)		
12/6/2016		0.15 (J)			
12/7/2016			0.07 (J)		
12/8/2016	0.22 (J)			0.21 (J)	
3/21/2017		0.02 (J)			
3/22/2017	0.16 (J)				
3/23/2017			<0.1	0.18 (J)	
7/11/2017	0.23 (J)	0.06 (J)	0.02 (J)		
7/12/2017				0.06 (J)	
10/17/2017		0.05 (J)	<0.1		
10/18/2017	0.28 (J)				
10/19/2017				<0.1	
2/20/2018		0.21 (J)	<0.1		
2/21/2018	0.29 (J)			0.039 (J)	
4/12/2018					<0.1
5/23/2018					0.063 (J)
6/13/2018					0.11 (J)
7/11/2018		0.087 (J)	<0.1		<0.1
7/12/2018	0.21 (J)			<0.1	
8/15/2018					
8/16/2018					
8/17/2018					<0.1
9/12/2018		0.049 (J)			0.093 (J)
9/13/2018	0.22 (J)		<0.1		
9/14/2018				<0.1	
10/4/2018				0.15 (J)	0.15 (J)
10/24/2018					0.29 (J)
3/26/2019		<0.1			
3/27/2019	0.37		<0.1		0.04
3/28/2019				<0.1	
9/10/2019					
10/1/2019			0.042 (X)		
10/2/2019	0.16 (X)	0.057 (X)			0.11 (X)
10/3/2019				0.06 (X)	
3/24/2020					0.051 (J)
3/25/2020	0.13 (J)	<0.1	<0.1		
3/26/2020				<0.1	
8/25/2020		<0.1	<0.1		
8/26/2020	0.14			<0.1	0.057 (J)
8/27/2020					
10/6/2020		<0.1	<0.1		0.073 (J)
10/7/2020	0.13			<0.1	
3/3/2021	0.12	<0.1	<0.1		
3/4/2021				<0.1	
3/8/2021					<0.1
9/14/2021			<0.1		0.089 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-2D (bg)
9/15/2021	0.14	<0.1			
9/16/2021				<0.1	

Prediction Limit

Constituent: pH (SU) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-18	PZ-17	PZ-19
8/30/2016	7.67								
8/31/2016		6.97	6.75						
9/1/2016				7.07	7.21				
9/6/2016						7.23			
9/7/2016							6.92	7.02	6.71
9/8/2016									
10/4/2016									
10/5/2016									
10/17/2016									
10/18/2016									
12/6/2016	7.57								
12/7/2016		6.85	6.64	6.85	7.13	7.3			
12/8/2016							6.9	6.95	6.61
3/21/2017	7.54	7.04	6.73						
3/22/2017				6.99	7.04	7.2	7	7.05	
3/23/2017									6.69
7/11/2017	7.43	6.88	6.66			7.31			
7/12/2017				6.83	7.09		6.95	7.06	6.69
10/17/2017	7.7								
10/18/2017		6.77	6.73		7.2	7.28		6.99	6.88
10/19/2017				6.91					6.85
2/20/2018	7.57	7.32 (D)	7.11						
2/21/2018				6.97	7.11	7.1	6.89	6.95	6.66
7/11/2018	7.48	7.12	7						
7/12/2018				6.85	7.07	7.14	7.01	7.06	6.84
8/15/2018							6.87		
8/16/2018								7.01	
9/12/2018	7.41	6.87							
9/13/2018			6.56	6.88	7.01	7.08	6.86		
9/14/2018								6.83	6.76
3/26/2019	7.49								
3/27/2019		6.98	6.75			7.23	6.92		
3/28/2019				6.96	7.84			6.97	6.67
9/10/2019			6.78						
10/1/2019	7.5								
10/2/2019		6.96			7.22	7.22		6.99	
10/3/2019				6.85			6.78		6.93
3/24/2020	7.79								
3/25/2020		7.02	6.84					6.93	
3/26/2020				7.12	7.08	7.12	7.01		6.7
8/25/2020	7.49								
8/26/2020		6.98	6.64	7.01	7.08	7.18		6.98	6.68
8/27/2020							6.88		
10/6/2020	7.35	7.01	6.78			7.24			
10/7/2020				6.98	7.11		6.91	7.04	6.78
3/3/2021	7.56	6.99	6.79						6.78
3/4/2021				6.95	7.09	7.34	6.91	7.09	
3/8/2021									
9/14/2021	7.45								
9/15/2021		6.94	6.72		7.09	7.12			
9/16/2021				6.96			6.85	7.03	6.77

Prediction Limit

Constituent: pH (SU) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-32 (bg)	PZ-31 (bg)	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	7.1				
10/4/2016		6.88			
10/5/2016		6.91			
10/17/2016			7.43		
10/18/2016			7.45	7.15	
12/6/2016				7.04	
12/7/2016			7.29		
12/8/2016	6.98	6.86			
3/21/2017				7.01	
3/22/2017	7.16				
3/23/2017		6.9	7.26		
7/11/2017	7.15	7.82 (o)	7.31	6.96	
7/12/2017		6.81			
10/17/2017			7.29	7.31	7.61
10/18/2017	7.09				
10/19/2017		6.86			
2/20/2018			7.26		
2/21/2018	7.12	7.02			
7/11/2018			7.39	7.26	9.48
7/12/2018		6.82		7.01	
8/15/2018					
8/16/2018					
9/12/2018				7.02	9.07
9/13/2018	7.03		7.25		
9/14/2018		6.75			
3/26/2019				7	
3/27/2019	7.08		7.42		8.76
3/28/2019		6.96			
9/10/2019					
10/1/2019			7.43		
10/2/2019	7.2			7.09	8.97
10/3/2019		7.01			
3/24/2020					8.57
3/25/2020	7.01		7.23	7.15	
3/26/2020		7			
8/25/2020			7.53	7.14	
8/26/2020	7.09	6.99			7.97
8/27/2020					
10/6/2020			7.27	7.01	8.72
10/7/2020	6.95	7.04			
3/3/2021	7.04		7.41	7.14	
3/4/2021		7.22			
3/8/2021					7.77
9/14/2021			7.31		8.96
9/15/2021	7.05			6.99	
9/16/2021		7.1			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-17	PZ-18	PZ-19
8/30/2016	2.1								
8/31/2016		4.1	29						
9/1/2016				73	62				
9/6/2016						49			
9/7/2016							99	96	87
9/8/2016									
10/18/2016									
12/6/2016	2.4								
12/7/2016		1.5	24	71	57	46			
12/8/2016							94	94	84
3/21/2017	2.5	2	31						
3/22/2017				80	61	53	100	95	
3/23/2017									90
7/11/2017	2.6	2	37			52			
7/12/2017				78	53		100	96	93
10/17/2017	2.5								
10/18/2017		4.2	34	82		58	100	99	
10/19/2017					55				92
2/20/2018	2.3	2.4	34.7						
2/21/2018				72.2	52.1	48.2	98.8	91.8	84.5
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	2.5	3.8	35.4						
7/12/2018				80.5	53.9	48.8			84.9
8/15/2018								101	
8/16/2018							111		
8/17/2018									
9/12/2018	2	4.3							
9/13/2018			37.4	84.4	67.5	48.7		106	
9/14/2018							102		89.5
10/4/2018									
10/24/2018									
3/26/2019	2.7								
3/27/2019		8.2	41.9			46.5		111	
3/28/2019				90.3	59.6		94.7		83.5
9/10/2019			45.1						
10/1/2019	2.8								
10/2/2019		6.2		83		48.5	104		
10/3/2019					59.6			95.8	84.9
3/24/2020	3								
3/25/2020		11.9	47				92.4		
3/26/2020				83.6	57.1	43.5		91	84.9
10/6/2020	2.4	11	71.2			42.4			
10/7/2020				80.7	48.9		89.1	87.3	83.3
3/3/2021	2.2	8.8	66						80.8
3/4/2021				74.1	49.7	38.9	66.8	88.6	
3/8/2021									
9/14/2021	2.6								
9/15/2021		11.4	46.8	73.4		37.8			
9/16/2021					41.8		70.9	86.9	72.7

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	48				
10/18/2016		2.2	2.3		
12/6/2016		6.1			
12/7/2016			1.9		
12/8/2016	46			100	
3/21/2017		5.7			
3/22/2017	53				
3/23/2017			1.7	100	
7/11/2017	51	4.8	1.8		
7/12/2017				97	
10/17/2017		6.4	1.9		
10/18/2017	50				
10/19/2017				97	
2/20/2018		5.2	2.1		
2/21/2018	46.8			93.6	
4/12/2018					4.8 (J)
5/23/2018					4.5
6/13/2018					5.3
7/11/2018		3.6	2		5.4
7/12/2018	48.3			89.4	
8/15/2018					
8/16/2018					
8/17/2018					4.5
9/12/2018		2.7			4.4
9/13/2018	42		2.1		
9/14/2018				88.9	
10/4/2018				97.8	5.8
10/24/2018					6.2
3/26/2019		1.6			
3/27/2019	43.7		2.4		3.7
3/28/2019				76.7	
9/10/2019					
10/1/2019			2.2		
10/2/2019	43	1.6			4.1
10/3/2019				72.1	
3/24/2020					3.1
3/25/2020	39.1	1.5	1.9		
3/26/2020				66.6	
10/6/2020		0.98 (J)	1.9		3.1
10/7/2020	38.1			54.6	
3/3/2021	39.2	0.6 (J)	2		
3/4/2021				49.3	
3/8/2021					2.7
9/14/2021			1.8		3.8
9/15/2021	37.8	0.64 (J)			
9/16/2021				40.4	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-19	PZ-17	PZ-18
8/30/2016	136								
8/31/2016		344	400						
9/1/2016				284	373				
9/6/2016						257			
9/7/2016							508	392	415
9/8/2016									
10/18/2016									
12/6/2016	207								
12/7/2016		393	406	242	433	248			
12/8/2016							556	431	441
3/21/2017	128	276	409						
3/22/2017				332	409	304		456	469
3/23/2017							482		
7/11/2017	138	263	414			265			
7/12/2017				308	374		497	445	432
10/17/2017	101								
10/18/2017		261	366	275		240		349	368
10/19/2017					318		448		
2/20/2018	138	295	429						
2/21/2018				312	367	285	500	411	409
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	153	294	440						
7/12/2018				337	423	285	523		
8/15/2018									422
8/16/2018								415	
8/17/2018									
9/12/2018	146	286							
9/13/2018			448	336	394	291			438
9/14/2018							486	403	
10/4/2018									
10/24/2018									
3/26/2019	334								
3/27/2019		281	410			277			408
3/28/2019				337	365		378	420	
9/10/2019			420						
10/1/2019	146								
10/2/2019		312		355		284		415	
10/3/2019					405		485		464
3/24/2020	228								
3/25/2020		330	454					408	
3/26/2020				330	332	286	440		415
10/6/2020	153	241	462			261			
10/7/2020				336	334		492	392	425
3/3/2021	134	258	444				452		
3/4/2021				300	335	264		325	427
3/8/2021									
9/14/2021	150								
9/15/2021		292	422	326		270			
9/16/2021					307		450	330	419

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/8/2021 3:47 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	293				
10/18/2016		152	264		
12/6/2016			299		
12/7/2016		214			
12/8/2016	309			503 (o)	
3/21/2017			260		
3/22/2017	299				
3/23/2017		165		430	
7/11/2017	301	162	244		
7/12/2017				438	
10/17/2017		140	218		
10/18/2017	256				
10/19/2017				393	
2/20/2018		163	264		
2/21/2018	297			435	
4/12/2018					69
5/23/2018					62
6/13/2018					93
7/11/2018		192	273		84
7/12/2018	310			447	
8/15/2018					
8/16/2018					
8/17/2018					115
9/12/2018			252		97
9/13/2018	307	192			
9/14/2018				447	
10/4/2018				450	103
10/24/2018					110
3/26/2019			253		
3/27/2019	287	167			87
3/28/2019				405	
9/10/2019					
10/1/2019		187			
10/2/2019	312		263		95
10/3/2019				414	
3/24/2020					123
3/25/2020	280	178	278		
3/26/2020				336	
10/6/2020		169	254		81
10/7/2020	280			337	
3/3/2021	267	166	264		
3/4/2021				283	
3/8/2021					126
9/14/2021		179			71
9/15/2021	272		256		
9/16/2021				296	

FIGURE E.

Trend Test - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 10/24/2021, 10:38 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**PZ-7D**	**-0.04063**	**-65**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**4.575**	**56**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-1D (bg)**	**1.872**	**48**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-31 (bg)**	**2.812**	**56**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-16**	**-0.3826**	**-57**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-18**	**-0.3694**	**-55**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-31 (bg)**	**-0.4171**	**-66**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-32 (bg)**	**-0.2327**	**-51**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-14**	**1.865**	**66**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-16**	**-2.962**	**-57**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-23A**	**5.699**	**75**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-2.693**	**-63**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-31 (bg)**	**-1.169**	**-66**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-33**	**-12.81**	**-79**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**PZ-23A**	**12.56**	**51**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Test - All Results

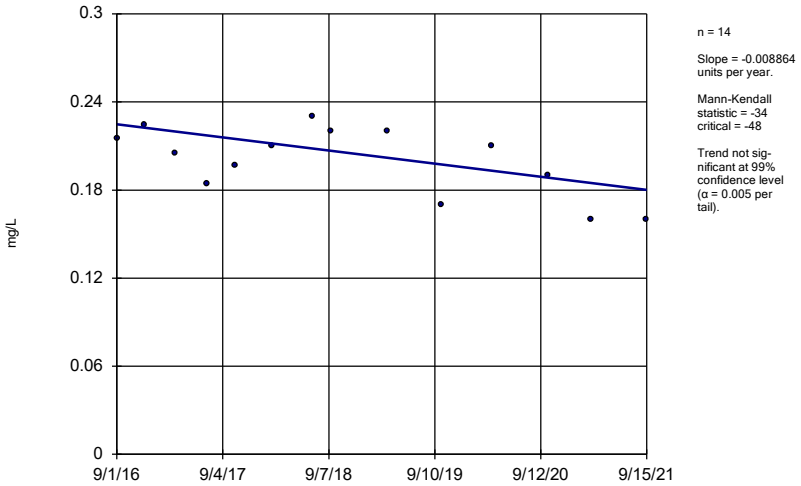
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 10/24/2021, 10:38 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-15	-0.008864	-34	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0	-2	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-17	-0.003985	-9	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-18	0	0	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.0268	-35	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.000653	12	48	No	14	7.143	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-23A	-0.001463	-12	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.005879	-28	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-2D (bg)	-0.001032	-24	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-31 (bg)	-0.001085	-21	-48	No	14	14.29	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	0	-1	-48	No	14	7.143	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-33	-0.01322	-57	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-7D**	**-0.04063**	**-65**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**4.575**	**56**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-19	0.8913	10	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-1D (bg)**	**1.872**	**48**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-23A	4.113	42	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	4.1	21	48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-31 (bg)**	**2.812**	**56**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-32 (bg)	1.937	45	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.2284	-32	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-16**	**-0.3826**	**-57**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-18**	**-0.3694**	**-55**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-1D (bg)	-0.06652	-27	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	-0.03144	-14	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-31 (bg)**	**-0.4171**	**-66**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-32 (bg)**	**-0.2327**	**-51**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	PZ-14	0.009753	10	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-18	-0.01097	-26	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.01081	18	58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	PZ-1D (bg)	-0.02483	-27	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.009918	13	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.1692	-11	-30	No	10	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	-0.004454	-12	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	-0.002048	-4	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-14**	**1.865**	**66**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-15	0.7309	21	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-16**	**-2.962**	**-57**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-17	-3.072	-30	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-18	-1.634	-26	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-19	-1.973	-46	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-1D (bg)	0.06271	20	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-23A**	**5.699**	**75**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-2.693**	**-63**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-2D (bg)	-0.6784	-43	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-31 (bg)**	**-1.169**	**-66**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-32 (bg)	0	2	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-33**	**-12.81**	**-79**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-7D	-2.054	-36	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-15	8.599	27	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-17	-14.24	-37	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-18	-0.9707	-4	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-19	-12.35	-35	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-1D (bg)	3.384	22	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	**PZ-23A**	**12.56**	**51**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	PZ-2D (bg)	9.178	23	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-31 (bg)	0	0	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-32 (bg)	1.629	16	48	No	14	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-15



n = 14

Slope = -0.008864 units per year.

Mann-Kendall statistic = -34
critical = -48

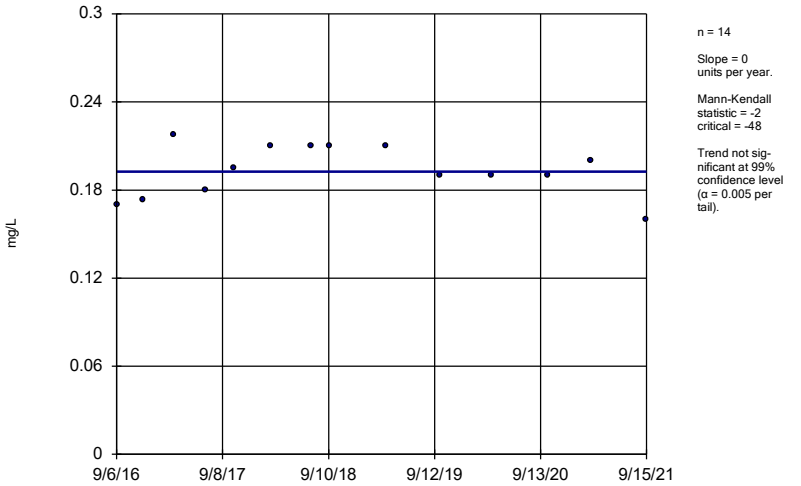
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-16



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = -2
critical = -48

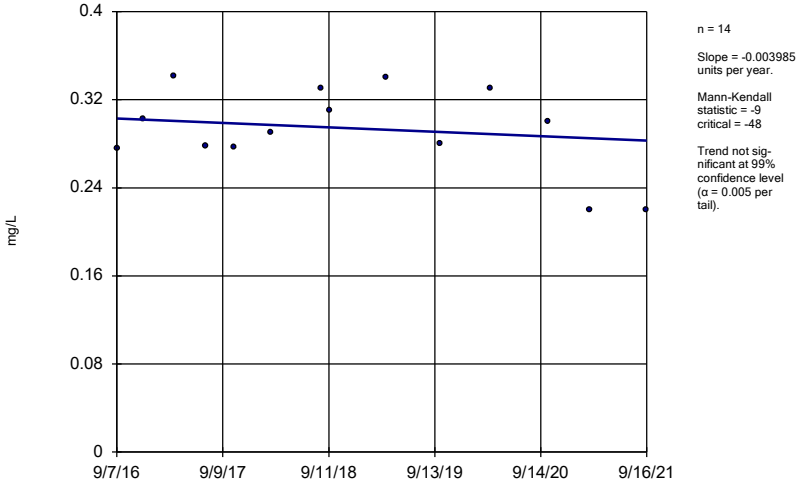
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-17



n = 14

Slope = -0.003985 units per year.

Mann-Kendall statistic = -9
critical = -48

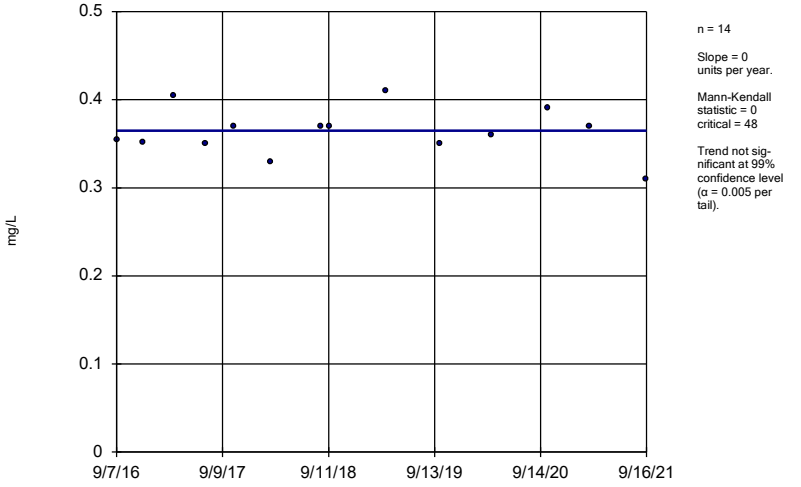
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-18



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 48

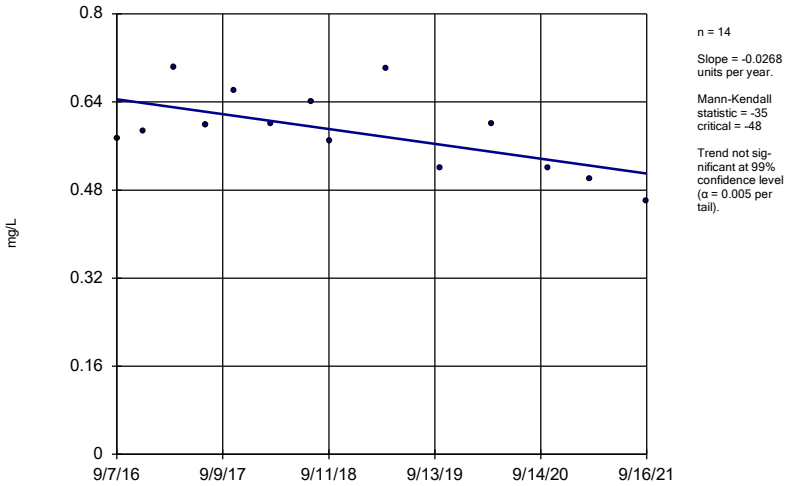
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-19



n = 14

Slope = -0.0268 units per year.

Mann-Kendall statistic = -35
critical = -48

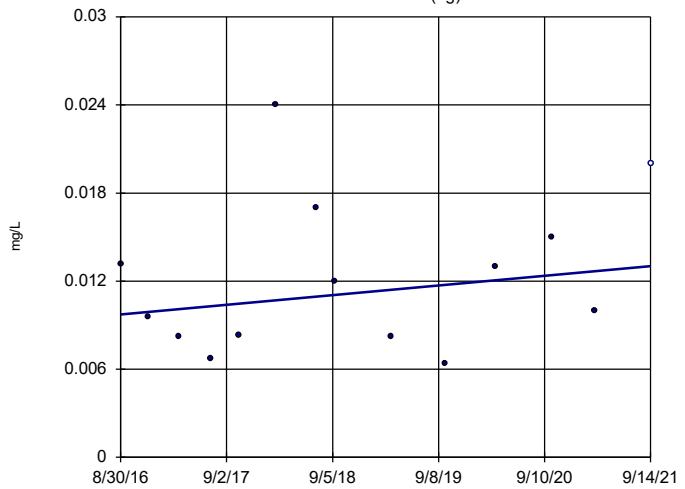
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-1D (bg)



n = 14

Slope = 0.000653 units per year.

Mann-Kendall statistic = 12
critical = 48

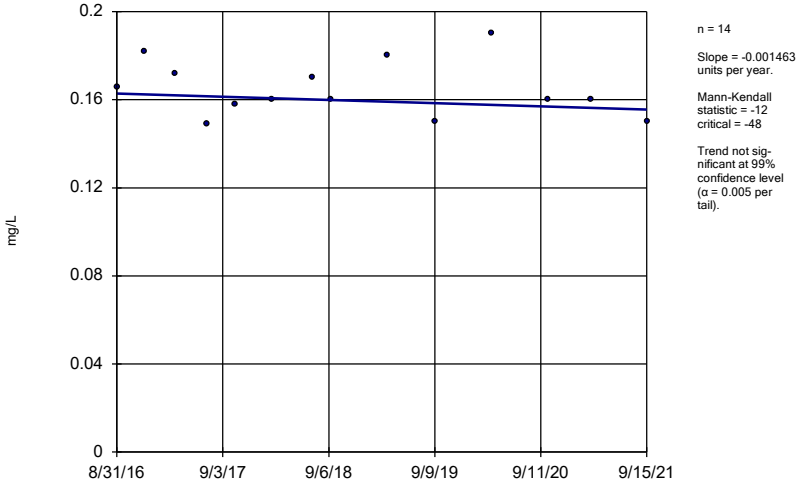
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-23A



n = 14

Slope = -0.001463 units per year.

Mann-Kendall statistic = -12
critical = -48

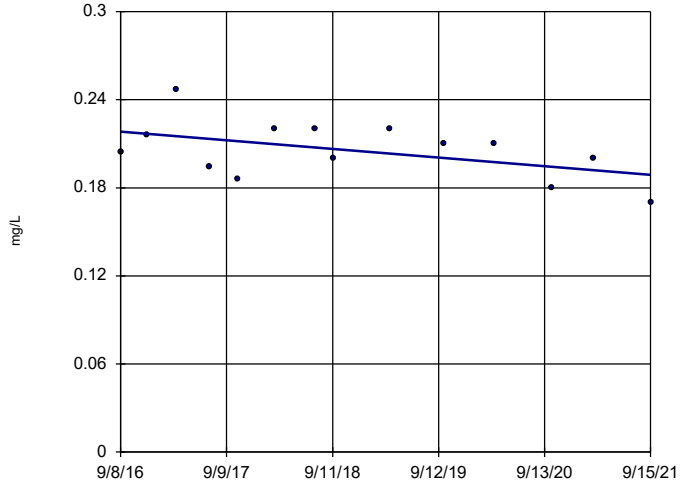
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-25



n = 14

Slope = -0.005879 units per year.

Mann-Kendall statistic = -28
critical = -48

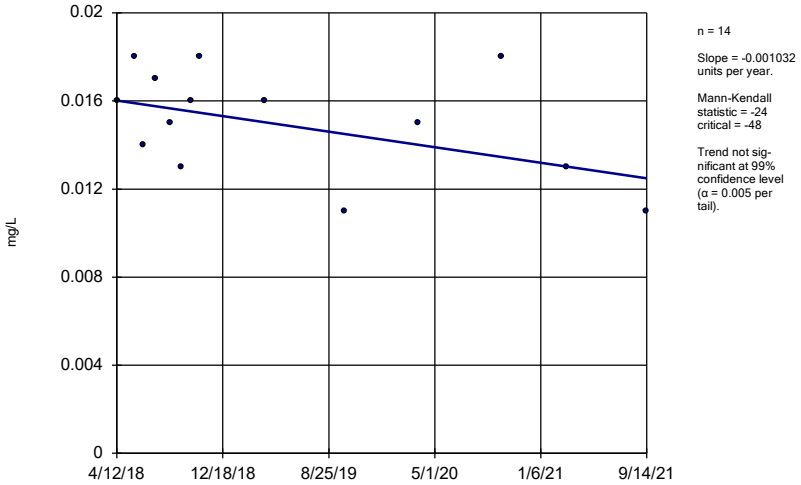
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-2D (bg)



n = 14

Slope = -0.001032 units per year.

Mann-Kendall statistic = -24
critical = -48

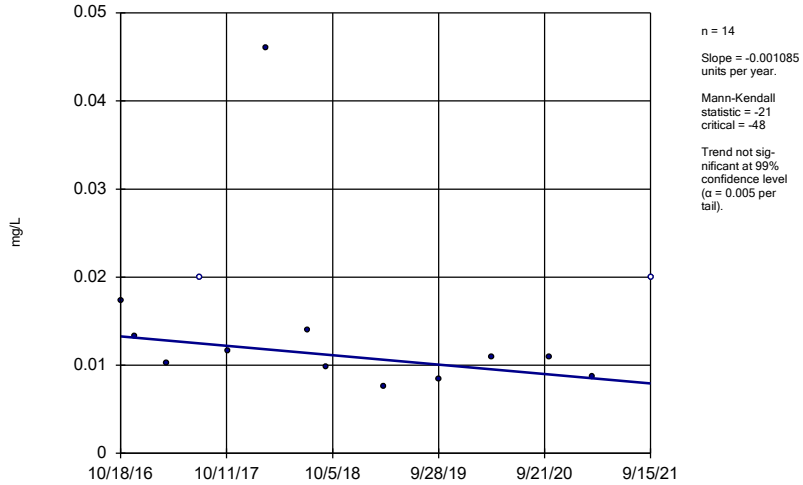
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-31 (bg)



n = 14

Slope = -0.001085 units per year.

Mann-Kendall statistic = -21
critical = -48

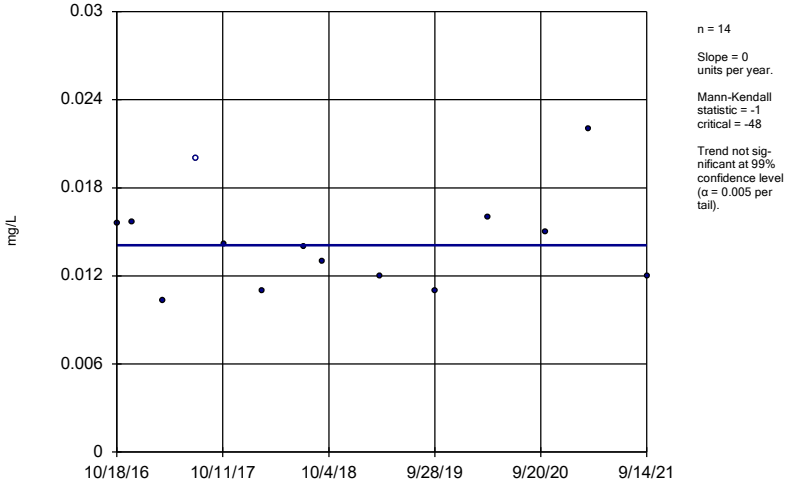
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-32 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -48

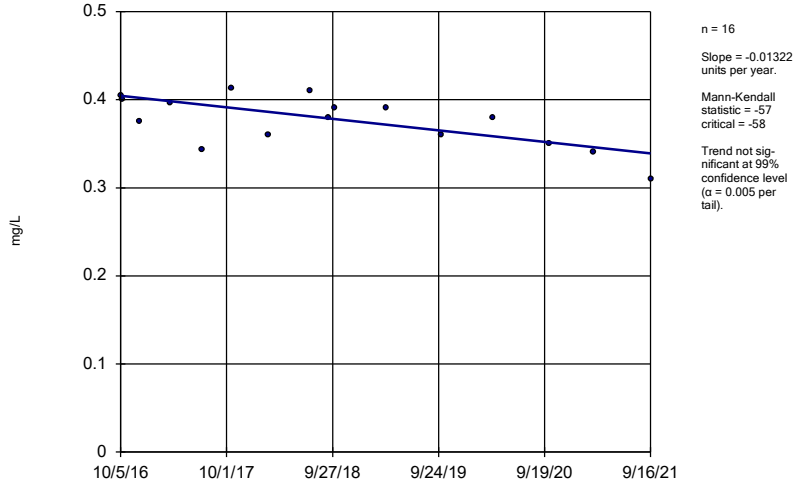
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-33



n = 16

Slope = -0.01322 units per year.

Mann-Kendall statistic = -57
critical = -58

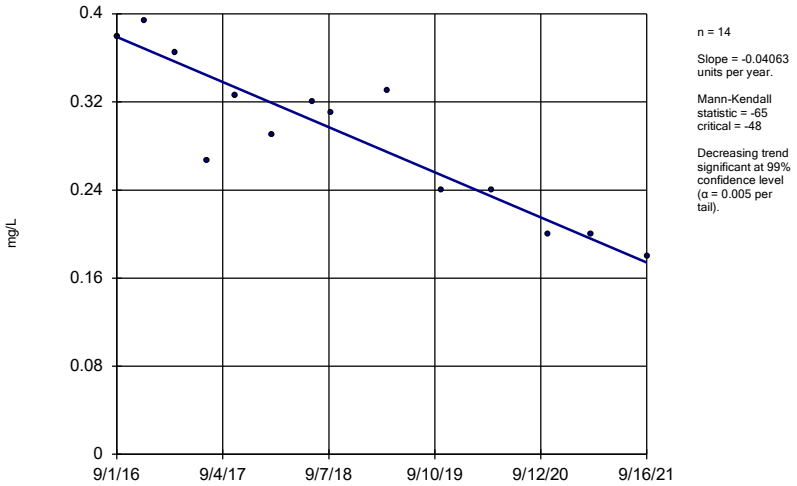
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-7D



n = 14

Slope = -0.04063 units per year.

Mann-Kendall statistic = -65 critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

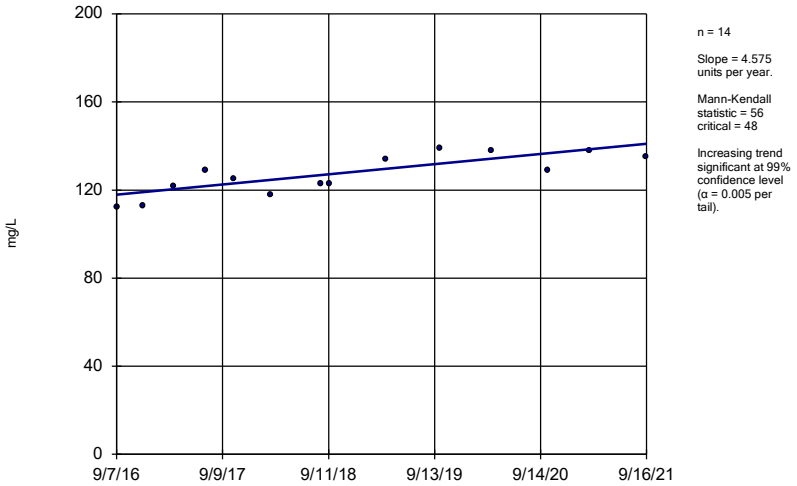
Constituent: Boron Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-18



n = 14

Slope = 4.575 units per year.

Mann-Kendall statistic = 56 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

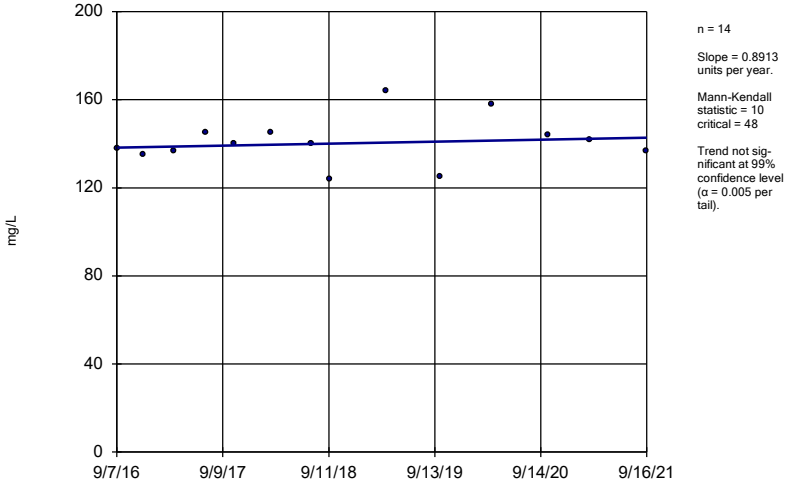
Constituent: Calcium Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-19



n = 14

Slope = 0.8913 units per year.

Mann-Kendall statistic = 10 critical = 48

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

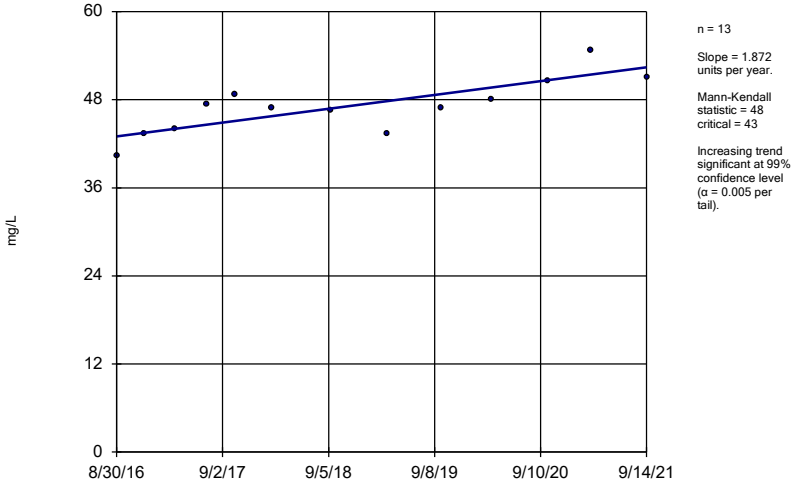
Constituent: Calcium Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-1D (bg)



n = 13

Slope = 1.872 units per year.

Mann-Kendall statistic = 48 critical = 43

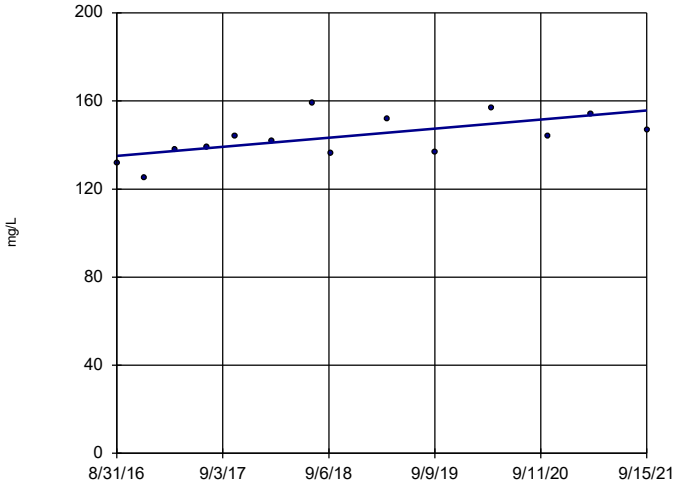
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-23A



n = 14

Slope = 4.113 units per year.

Mann-Kendall statistic = 42 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

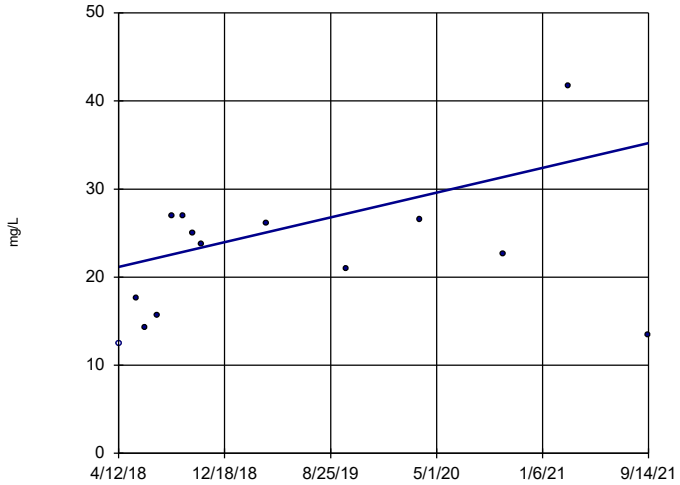
Constituent: Calcium Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-2D (bg)



n = 14

Slope = 4.1 units per year.

Mann-Kendall statistic = 21 critical = 48

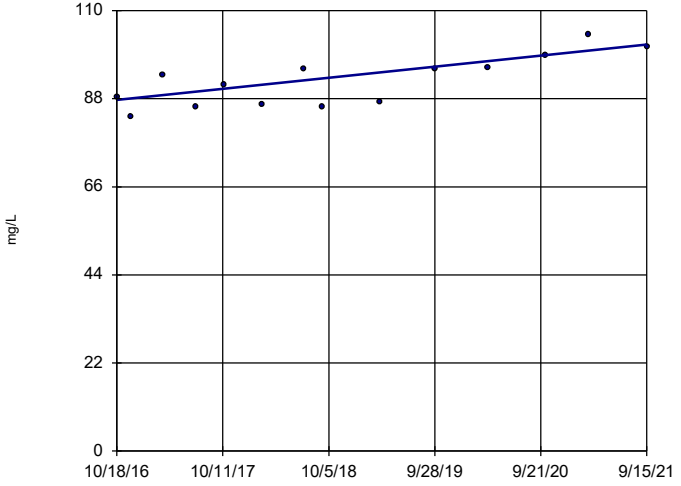
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-31 (bg)



n = 14

Slope = 2.812 units per year.

Mann-Kendall statistic = 56 critical = 48

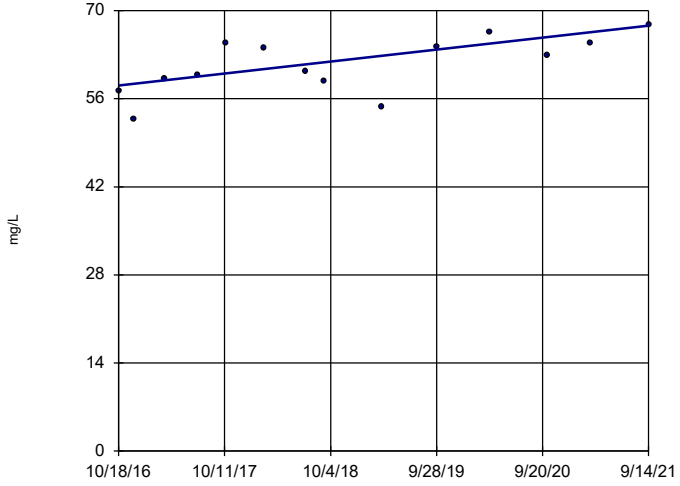
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-32 (bg)



n = 14

Slope = 1.937 units per year.

Mann-Kendall statistic = 45 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

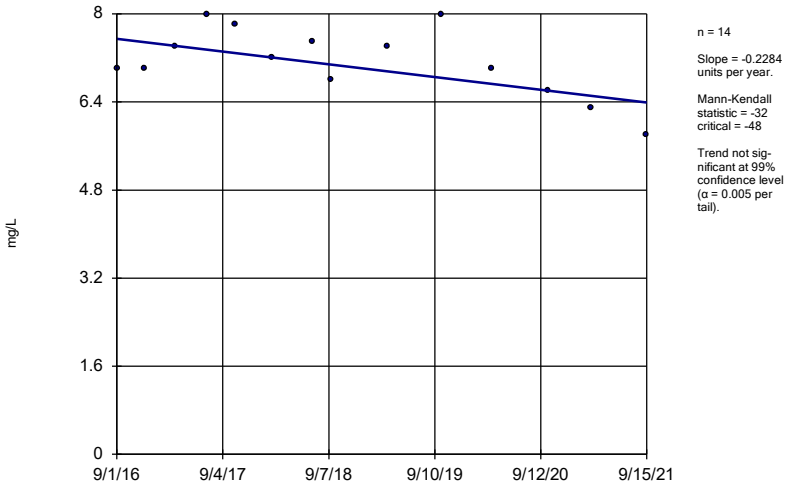
Constituent: Calcium Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-15



n = 14

Slope = -0.2284 units per year.

Mann-Kendall statistic = -32
critical = -48

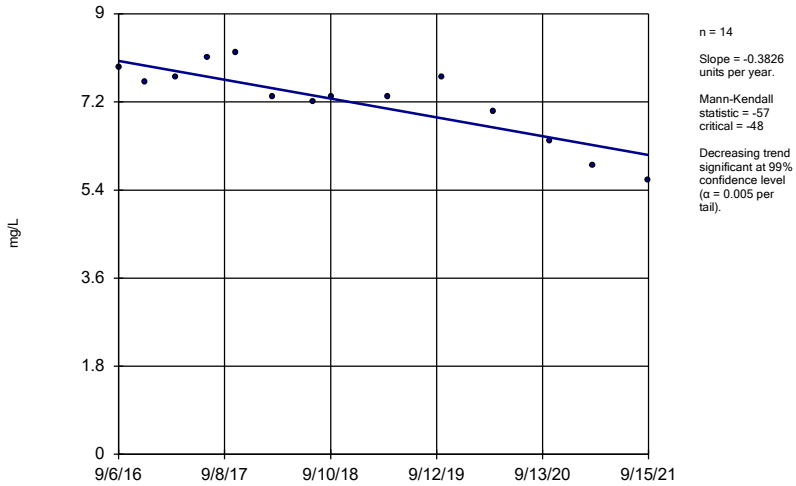
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-16



n = 14

Slope = -0.3826 units per year.

Mann-Kendall statistic = -57
critical = -48

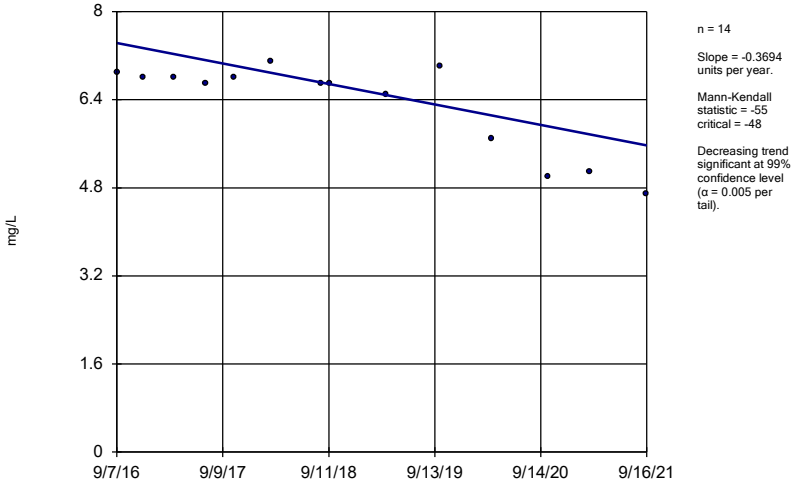
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-18



n = 14

Slope = -0.3694 units per year.

Mann-Kendall statistic = -55
critical = -48

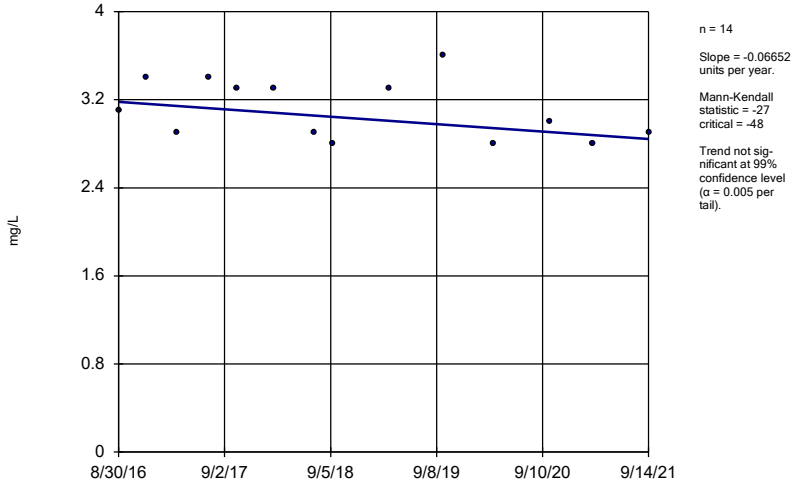
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-1D (bg)



n = 14

Slope = -0.06652 units per year.

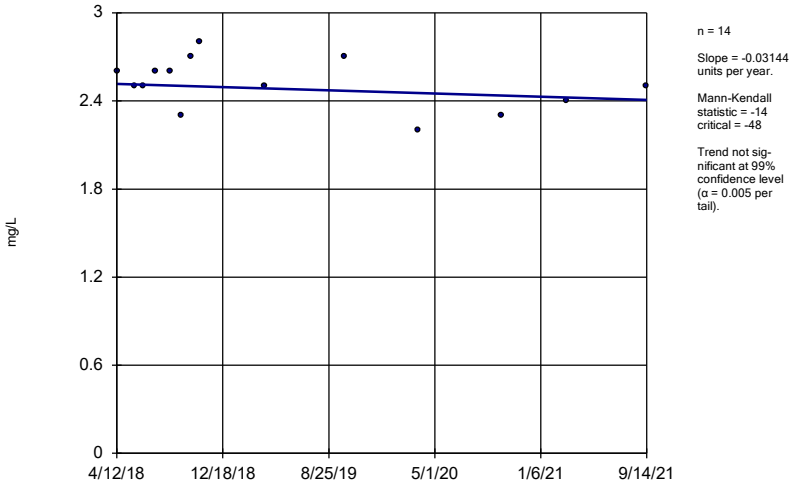
Mann-Kendall statistic = -27
critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-2D (bg)



n = 14

Slope = -0.03144 units per year.

Mann-Kendall statistic = -14 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

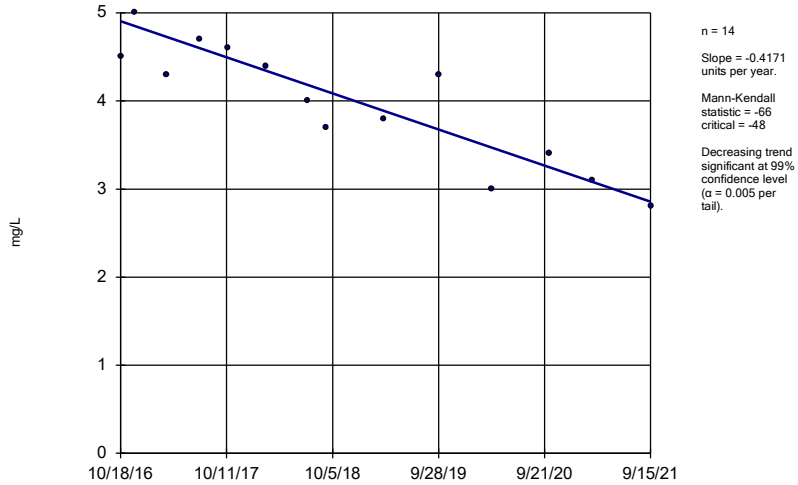
Constituent: Chloride Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-31 (bg)



n = 14

Slope = -0.4171 units per year.

Mann-Kendall statistic = -66 critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

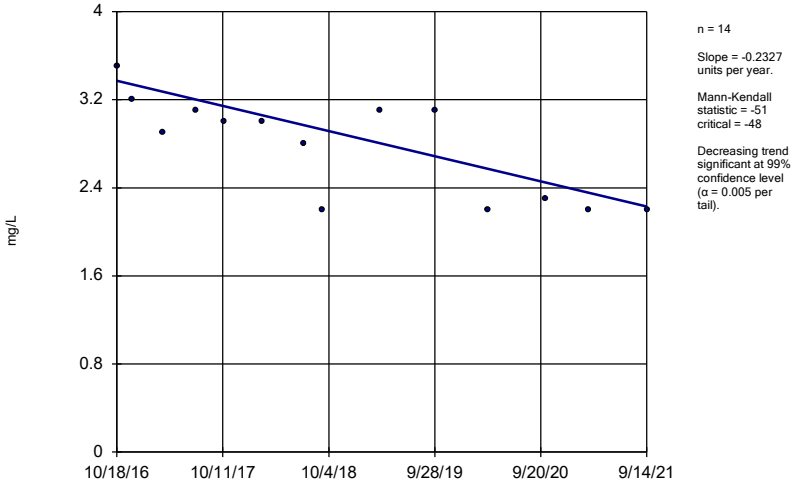
Constituent: Chloride Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-32 (bg)



n = 14

Slope = -0.2327 units per year.

Mann-Kendall statistic = -51 critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

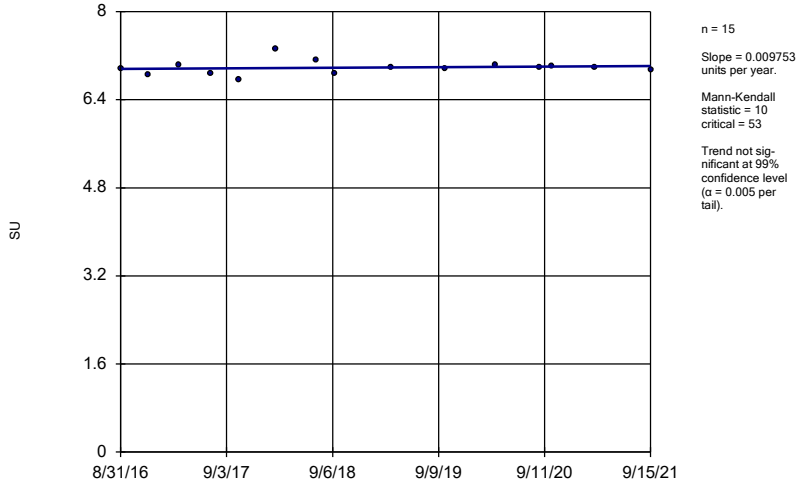
Constituent: Chloride Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-14



n = 15

Slope = 0.009753 units per year.

Mann-Kendall statistic = 10 critical = 53

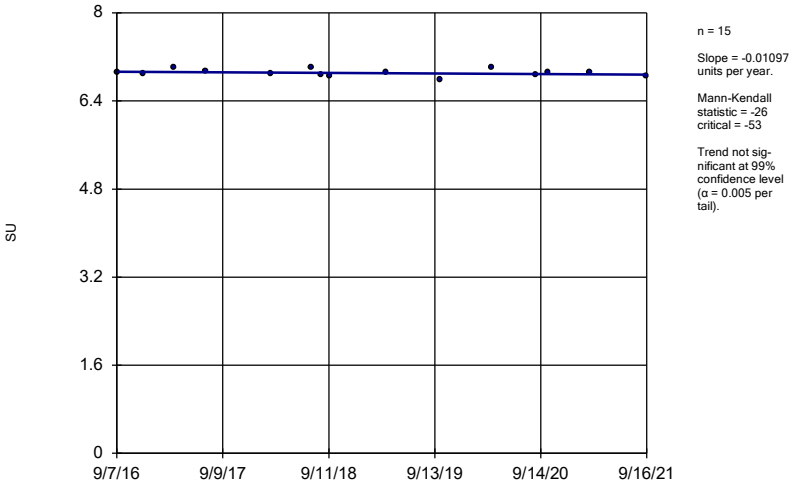
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-18



n = 15

Slope = -0.01097 units per year.

Mann-Kendall statistic = -26
critical = -53

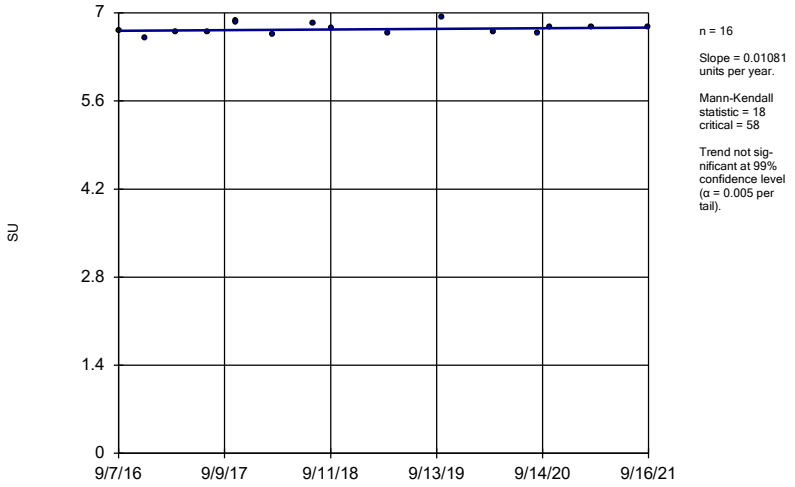
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-19



n = 16

Slope = 0.01081 units per year.

Mann-Kendall statistic = 18
critical = 58

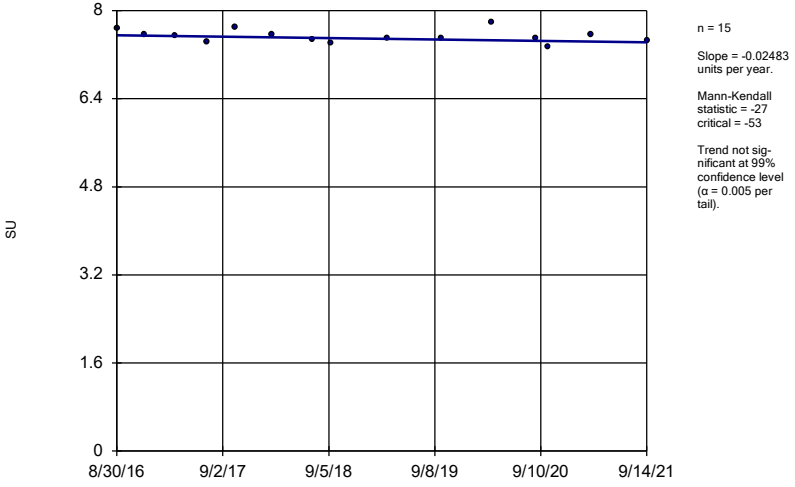
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-1D (bg)



n = 15

Slope = -0.02483 units per year.

Mann-Kendall statistic = -27
critical = -53

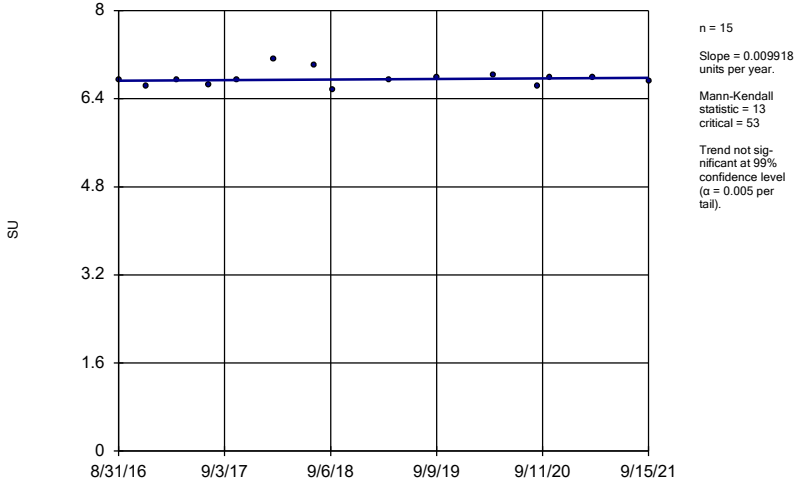
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-23A



n = 15

Slope = 0.009918 units per year.

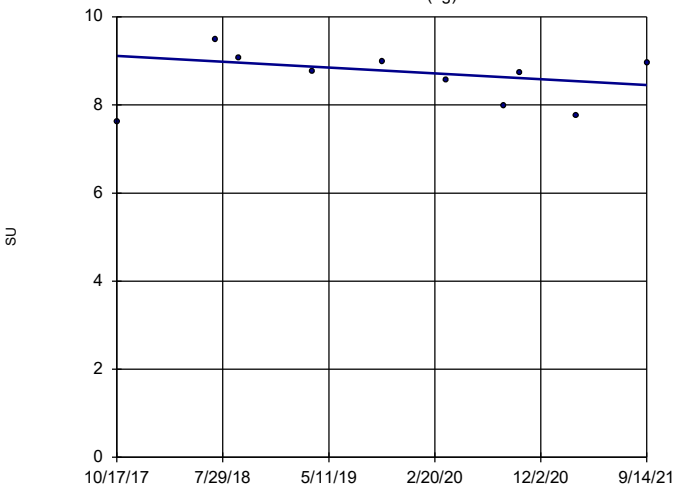
Mann-Kendall statistic = 13
critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-2D (bg)



n = 10

Slope = -0.1692 units per year.

Mann-Kendall statistic = -11
critical = -30

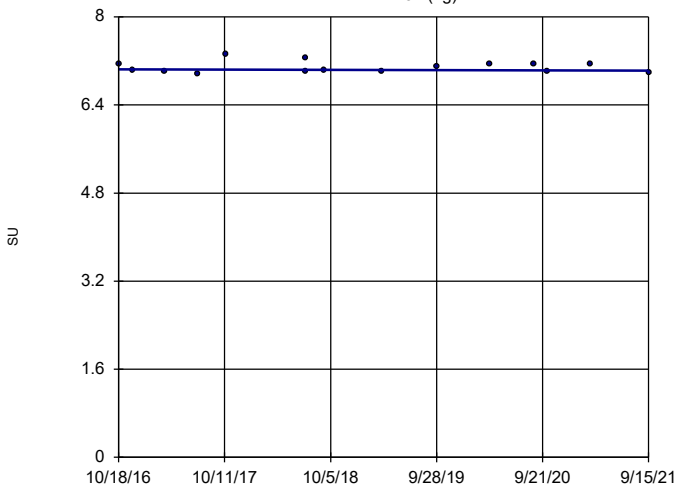
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-31 (bg)



n = 15

Slope = -0.004454 units per year.

Mann-Kendall statistic = -12
critical = -53

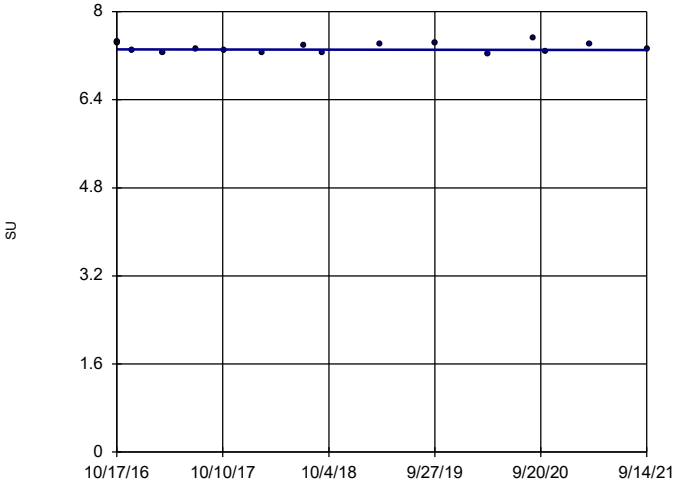
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-32 (bg)



n = 16

Slope = -0.002048 units per year.

Mann-Kendall statistic = -4
critical = -58

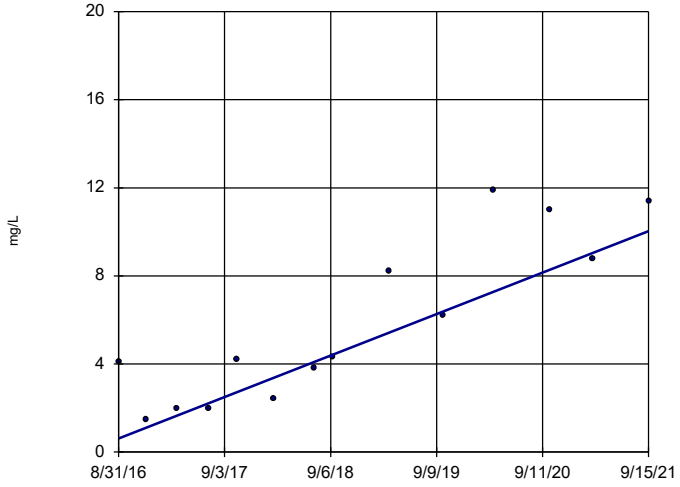
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-14



n = 14

Slope = 1.865 units per year.

Mann-Kendall statistic = 66
critical = 48

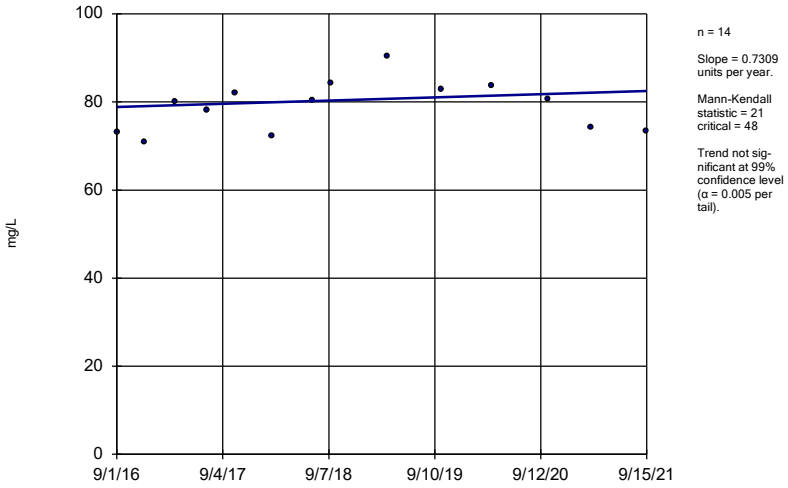
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-15



n = 14

Slope = 0.7309 units per year.

Mann-Kendall statistic = 21 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

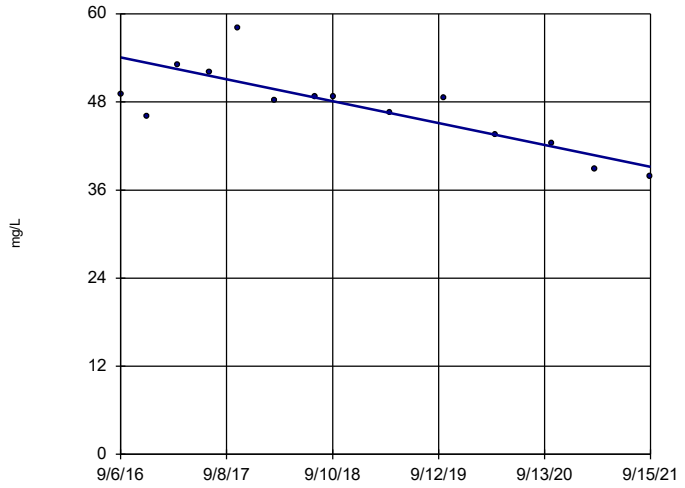
Constituent: Sulfate Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-16



n = 14

Slope = -2.962 units per year.

Mann-Kendall statistic = -57 critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

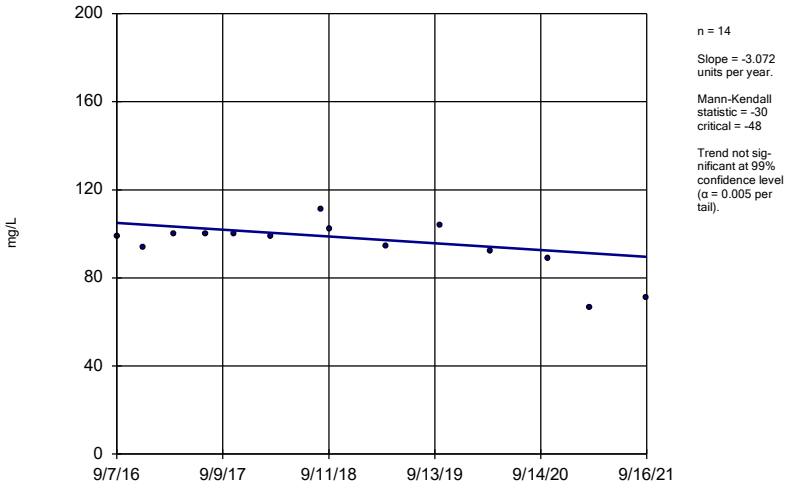
Constituent: Sulfate Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-17



n = 14

Slope = -3.072 units per year.

Mann-Kendall statistic = -30 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

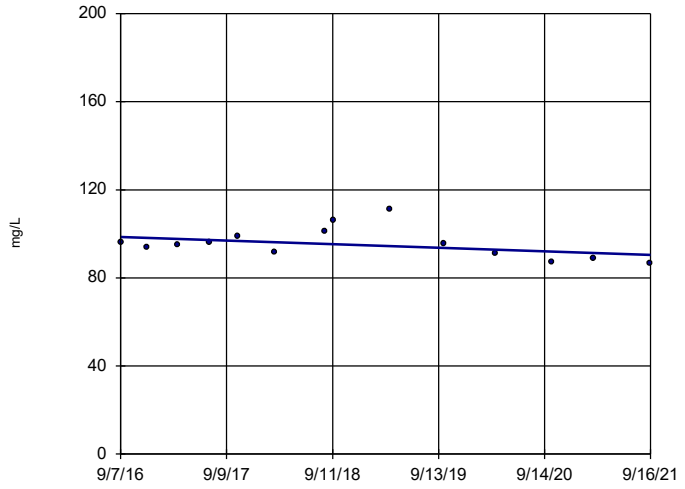
Constituent: Sulfate Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-18



n = 14

Slope = -1.634 units per year.

Mann-Kendall statistic = -26 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

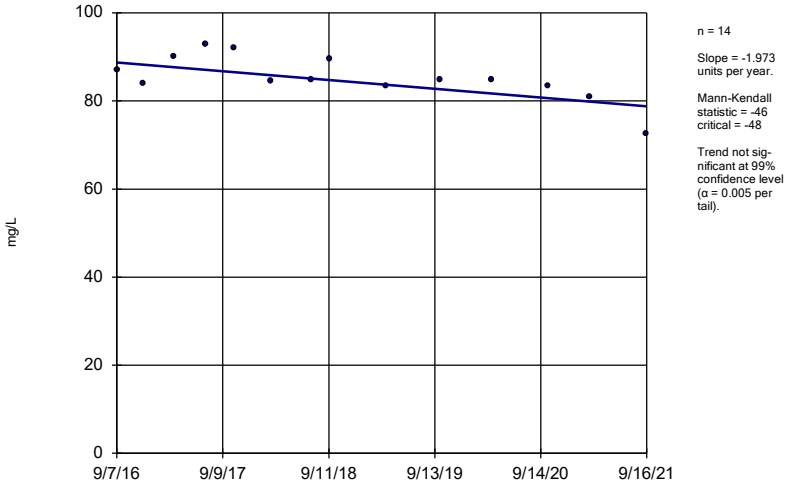
Constituent: Sulfate Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-19



n = 14

Slope = -1.973 units per year.

Mann-Kendall statistic = -46
critical = -48

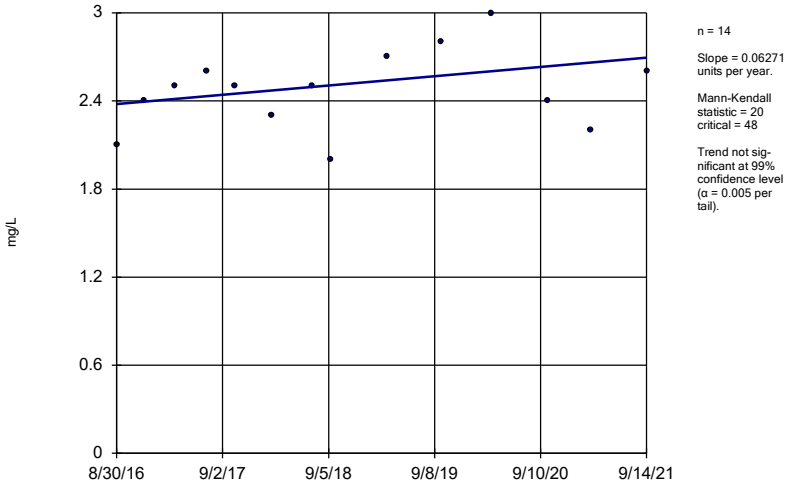
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-1D (bg)



n = 14

Slope = 0.06271 units per year.

Mann-Kendall statistic = 20
critical = 48

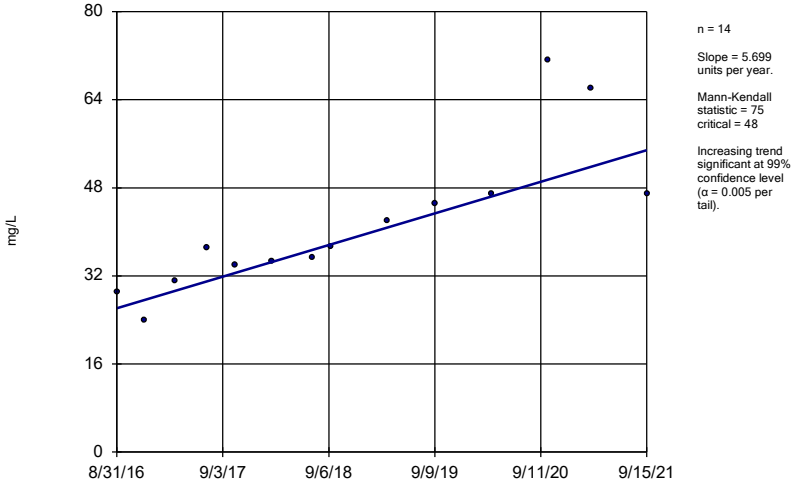
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-23A



n = 14

Slope = 5.699 units per year.

Mann-Kendall statistic = 75
critical = 48

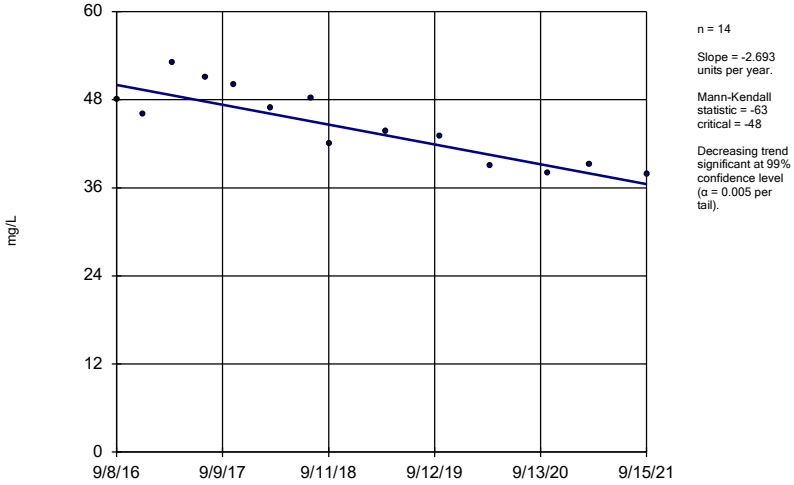
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-25



n = 14

Slope = -2.693 units per year.

Mann-Kendall statistic = -63
critical = -48

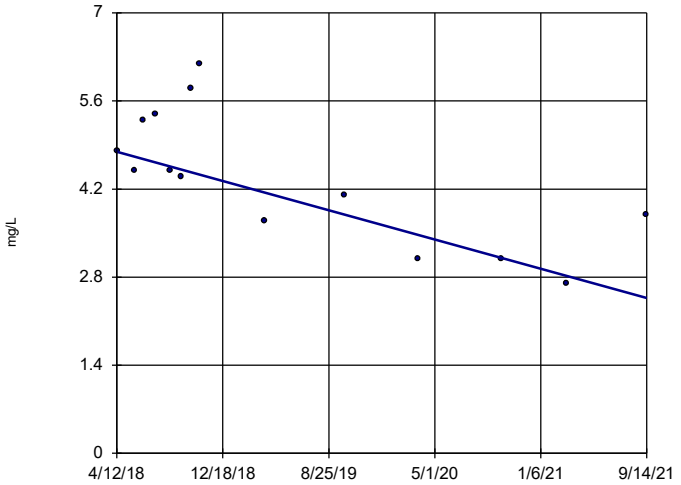
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-2D (bg)



n = 14

Slope = -0.6784 units per year.

Mann-Kendall statistic = -43
critical = -48

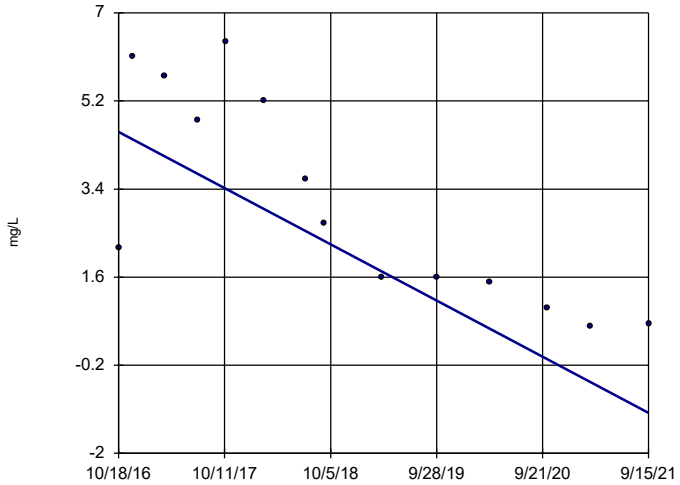
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-31 (bg)



n = 14

Slope = -1.169 units per year.

Mann-Kendall statistic = -66
critical = -48

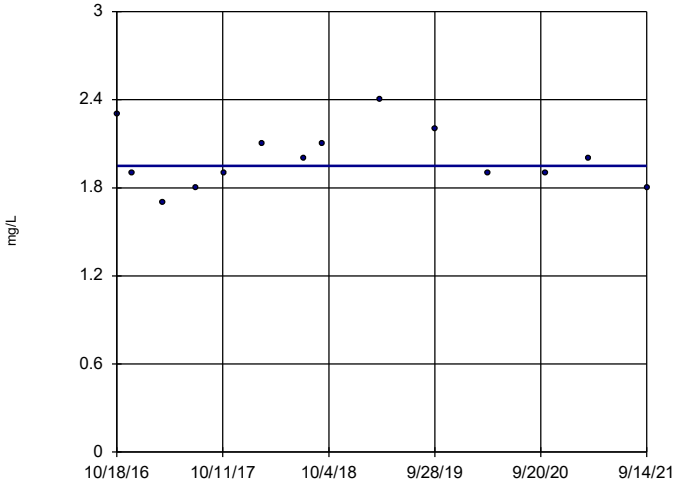
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-32 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = 2
critical = 48

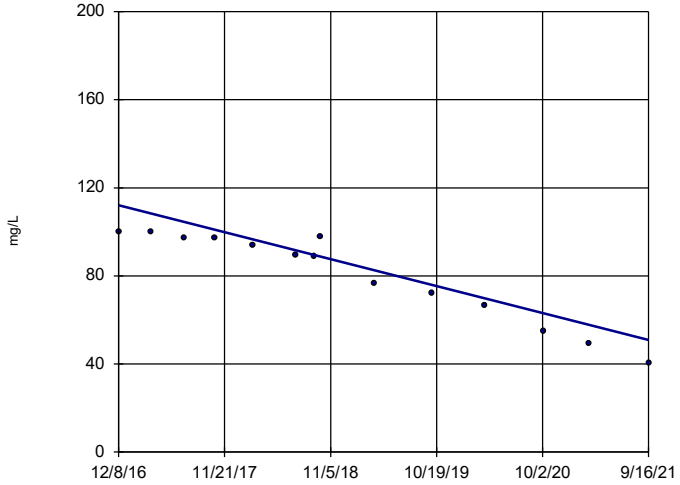
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-33



n = 14

Slope = -12.81 units per year.

Mann-Kendall statistic = -79
critical = -48

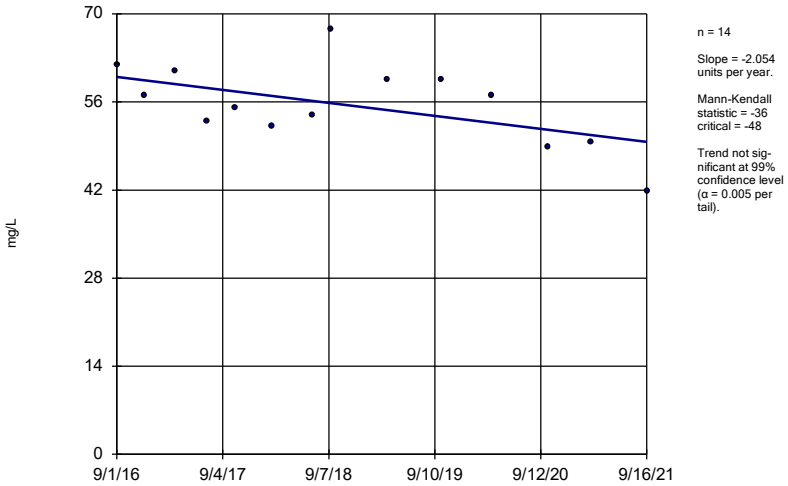
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-7D



n = 14

Slope = -2.054 units per year.

Mann-Kendall statistic = -36
critical = -48

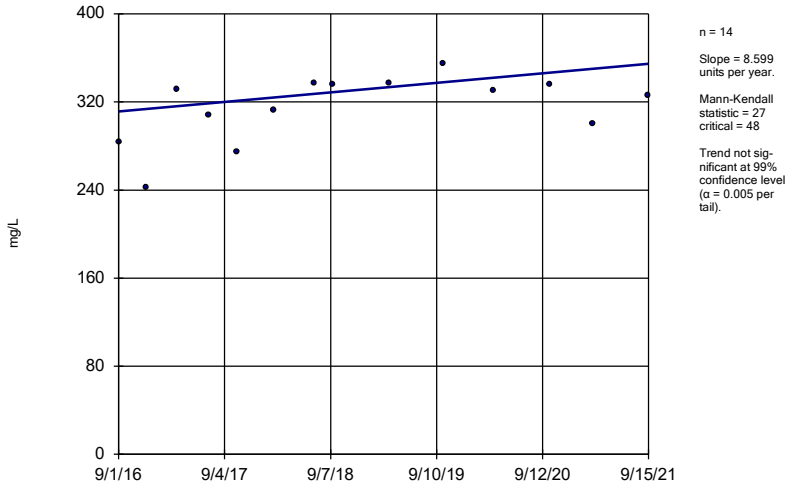
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-15



n = 14

Slope = 8.599 units per year.

Mann-Kendall statistic = 27
critical = 48

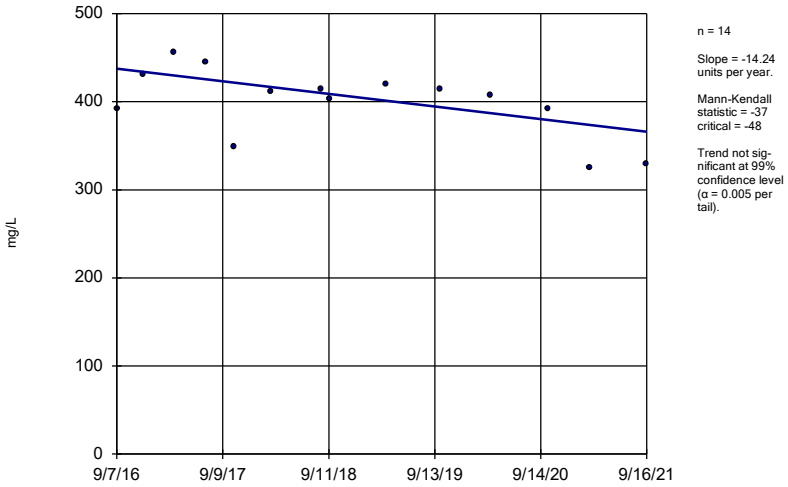
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-17



n = 14

Slope = -14.24 units per year.

Mann-Kendall statistic = -37
critical = -48

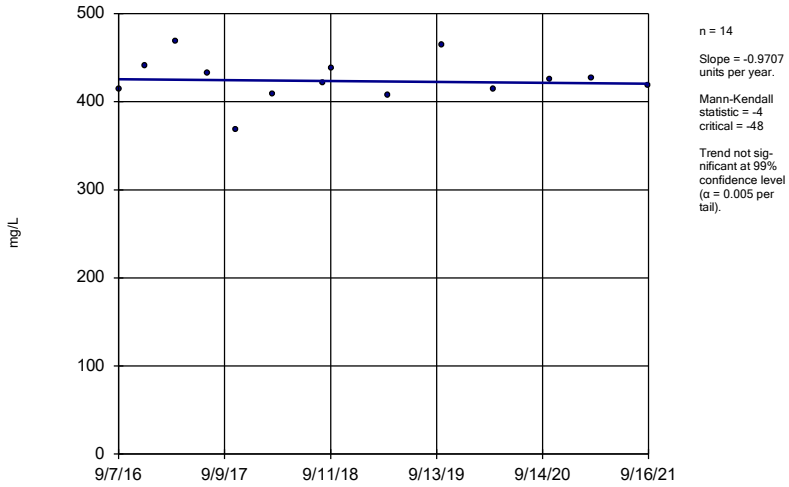
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-18



n = 14

Slope = -0.9707 units per year.

Mann-Kendall statistic = -4
critical = -48

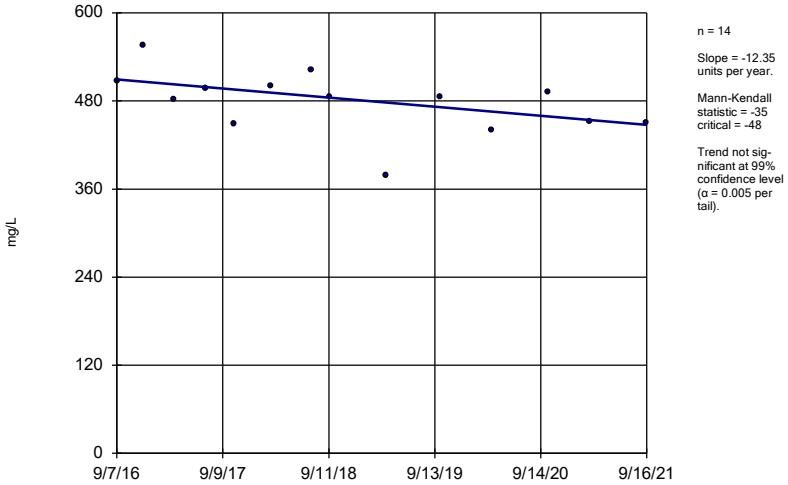
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/24/2021 10:37 PM View: Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-19



n = 14

Slope = -12.35 units per year.

Mann-Kendall statistic = -35 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

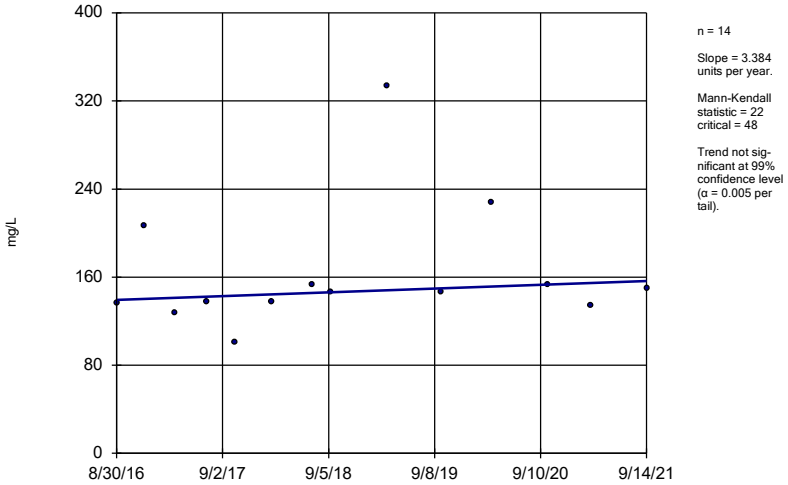
Constituent: TDS Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-1D (bg)



n = 14

Slope = 3.384 units per year.

Mann-Kendall statistic = 22 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

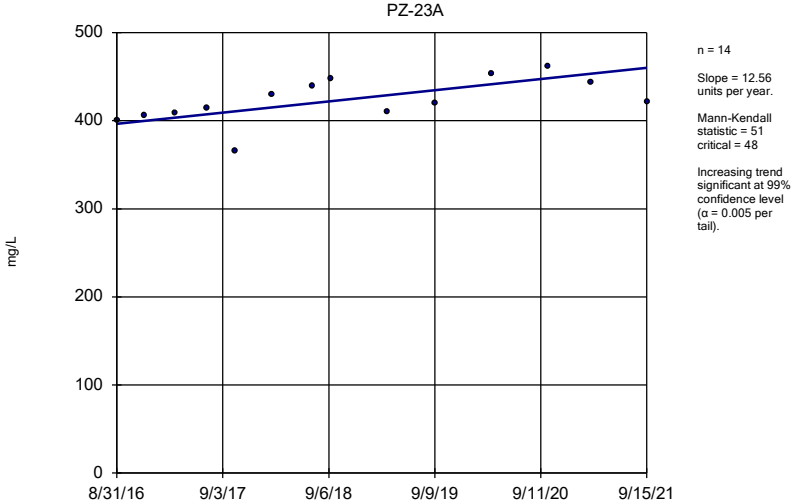
Constituent: TDS Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-23A



n = 14

Slope = 12.56 units per year.

Mann-Kendall statistic = 51 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

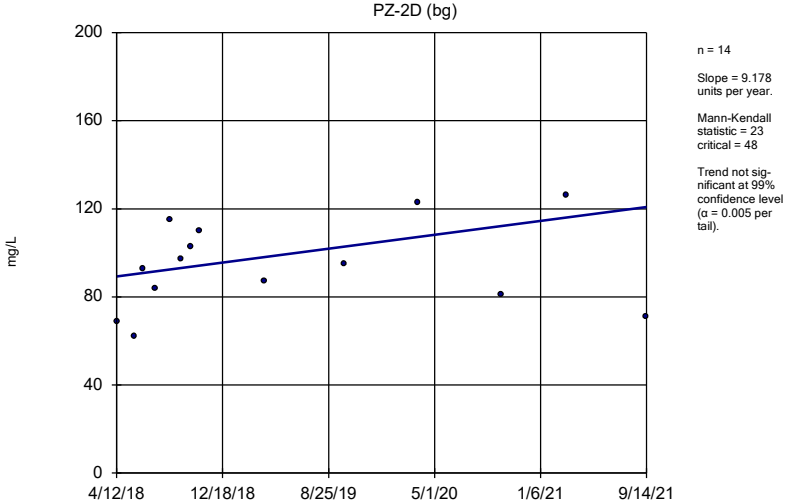
Constituent: TDS Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-2D (bg)



n = 14

Slope = 9.178 units per year.

Mann-Kendall statistic = 23 critical = 48

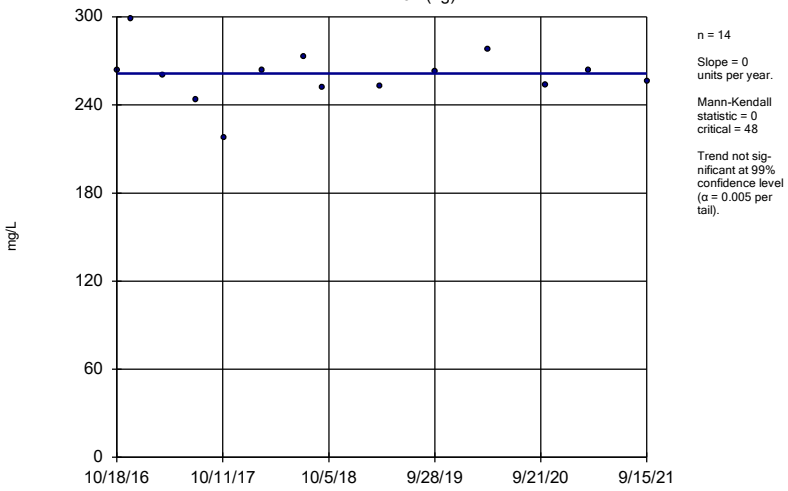
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-31 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 48

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

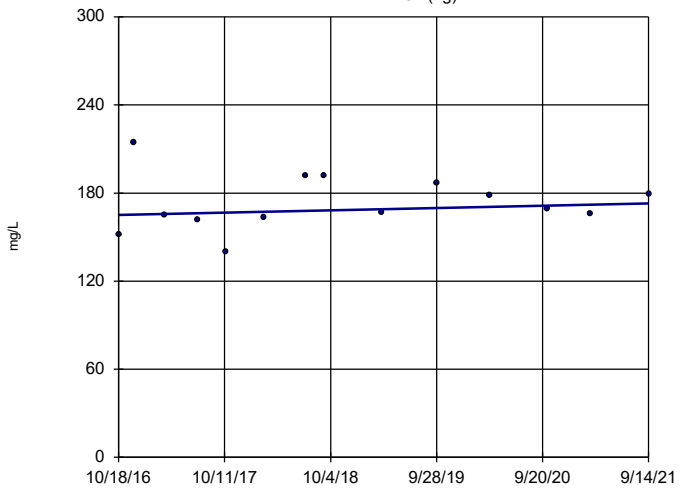
Constituent: TDS Analysis Run 10/24/2021 10:37 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 . UG

Sen's Slope Estimator

PZ-32 (bg)



n = 14

Slope = 1.629 units per year.

Mann-Kendall statistic = 16 critical = 48

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/24/2021 10:38 PM View: Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

FIGURE F.

Upper Tolerance Limits

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/5/2021, 1:49 AM

Constituent	Upper Lim.	Bg N	Std. Dev.	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.0035	56	n/a	53.57	n/a	0.05656	NP Inter(NDs)
Arsenic (mg/L)	0.005	48	n/a	85.42	n/a	0.08526	NP Inter(NDs)
Barium (mg/L)	0.05193	56	0.6931	1.786	ln(x)	0.05	Inter
Beryllium (mg/L)	0.0005	40	n/a	95	n/a	0.1285	NP Inter(NDs)
Cadmium (mg/L)	0.0005	40	n/a	100	n/a	0.1285	NP Inter(NDs)
Chromium (mg/L)	0.011	56	n/a	25	n/a	0.05656	NP Inter(normality)
Cobalt (mg/L)	0.005	56	n/a	96.43	n/a	0.05656	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.73	54	0.2766	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.29	60	n/a	48.33	n/a	0.04607	NP Inter(normality)
Lead (mg/L)	0.001	56	n/a	76.79	n/a	0.05656	NP Inter(NDs)
Lithium (mg/L)	0.03	56	n/a	80.36	n/a	0.05656	NP Inter(NDs)
Mercury (mg/L)	0.0002	48	n/a	91.67	n/a	0.08526	NP Inter(NDs)
Molybdenum (mg/L)	0.01	56	n/a	76.79	n/a	0.05656	NP Inter(NDs)
Selenium (mg/L)	0.005	56	n/a	100	n/a	0.05656	NP Inter(NDs)
Thallium (mg/L)	0.001	56	n/a	89.29	n/a	0.05656	NP Inter(NDs)

FIGURE G.

PLANT MITCHELL ASH POND GWPS			
Constituent Name	**MCL**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006	0.0035	0.006
Arsenic, Total (mg/L)	0.01	0.005	0.01
Barium, Total (mg/L)	2	0.055	2
Beryllium, Total (mg/L)	0.004	0.0005	0.004
Cadmium, Total (mg/L)	0.005	0.0005	0.005
Chromium, Total (mg/L)	0.1	0.011	0.1
Cobalt, Total (mg/L)	n/a	0.005	0.005
Combined Radium, Total (pCi/L)	5	1.73	5
Fluoride, Total (mg/L)	4	0.29	4
Lead, Total (mg/L)	n/a	0.001	0.001
Lithium, Total (mg/L)	n/a	0.03	0.03
Mercury, Total (mg/L)	0.002	0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.01	0.01
Selenium, Total (mg/L)	0.05	0.005	0.05
Thallium, Total (mg/L)	0.002	0.001	0.002

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/8/2021, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-14	0.003	0.0004	0.006	No	14	0.002814	0.0006949	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-15	0.003	0.001	0.006	No	14	0.002687	0.0007988	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-16	0.003	0.00037	0.006	No	14	0.002812	0.0007029	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-17	0.003	0.00094	0.006	No	14	0.002507	0.0009828	78.57	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-18	0.003	0.0018	0.006	No	14	0.0028	0.0005144	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-19	0.003	0.00044	0.006	No	14	0.002817	0.0006842	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-23A	0.003	0.0017	0.006	No	14	0.00272	0.0007574	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-33	0.003	0.00037	0.006	No	14	0.002812	0.0007029	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-7D	0.003	0.00042	0.006	No	14	0.00243	0.001133	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-14	0.005	0.00083	0.01	No	12	0.004652	0.001204	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-15	0.005	0.00089	0.01	No	12	0.003966	0.001874	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-17	0.005	0.0007	0.01	No	12	0.003927	0.001942	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-19	0.005	0.0007	0.01	No	12	0.004642	0.001241	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-23A	0.005	0.00036	0.01	No	12	0.004613	0.001339	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-25	0.005	0.00071	0.01	No	12	0.00367	0.001981	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-33	0.005	0.00094	0.01	No	12	0.004303	0.001628	83.33	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-14	0.03343	0.01769	2	No	14	0.02635	0.01338	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	PZ-15	0.076	0.047	2	No	14	0.05957	0.01623	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-16	0.0467	0.034	2	No	14	0.04414	0.01373	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-17	0.07984	0.07177	2	No	14	0.07581	0.005696	0	None	No	0.01	Param.
Barium (mg/L)	PZ-18	0.029	0.023	2	No	14	0.03007	0.01406	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-19	0.05928	0.05299	2	No	14	0.05614	0.004441	0	None	No	0.01	Param.
Barium (mg/L)	PZ-23A	0.05249	0.03709	2	No	14	0.04479	0.01087	0	None	No	0.01	Param.
Barium (mg/L)	PZ-25	0.1098	0.1003	2	No	14	0.1051	0.006668	0	None	No	0.01	Param.
Barium (mg/L)	PZ-33	0.07376	0.0527	2	No	13	0.06323	0.01416	0	None	No	0.01	Param.
Barium (mg/L)	PZ-7D	0.01022	0.006993	2	No	14	0.008607	0.002278	0	None	No	0.01	Param.
Cadmium (mg/L)	PZ-23A	0.0005	0.0002	0.005	No	10	0.00044	0.0001265	80	None	No	0.011	NP (NDs)
Cadmium (mg/L)	PZ-33	0.0005	0.0005	0.005	No	10	0.00046	0.0001265	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	PZ-14	0.005	0.0011	0.1	No	14	0.003625	0.001917	64.29	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-16	0.005	0.00087	0.1	No	14	0.002986	0.002099	50	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-18	0.005	0.00056	0.1	No	14	0.004683	0.001187	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-19	0.005	0.00073	0.1	No	14	0.004695	0.001141	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-23A	0.002177	0.001208	0.1	No	14	0.002543	0.001558	21.43	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	PZ-33	0.005	0.0017	0.1	No	14	0.004764	0.000882	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-7D	0.005	0.0005	0.1	No	14	0.002743	0.001903	35.71	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-14	0.005	0.002	0.005	No	14	0.00445	0.001437	85.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-15	0.005	0.0005	0.005	No	14	0.003429	0.002196	64.29	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-16	0.005	0.0005	0.005	No	14	0.004679	0.001203	92.86	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-17	0.005	0.0005	0.005	No	14	0.003116	0.002264	57.14	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-18	0.005	0.0011	0.005	No	14	0.004721	0.001042	92.86	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-19	0.005	0.0012	0.005	No	14	0.004436	0.001436	85.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-23A	0.005	0.00058	0.005	No	14	0.003417	0.002206	64.29	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-25	0.001906	0.0009369	0.005	No	14	0.001539	0.001077	7.143	None	ln(x)	0.01	Param.
Cobalt (mg/L)	PZ-33	0.005	0.0007	0.005	No	14	0.003416	0.002085	57.14	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-14	1.054	0.3414	5	No	14	0.7396	0.5739	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-15	1.061	0.663	5	No	14	0.8877	0.3508	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-16	0.8877	0.4702	5	No	14	0.6929	0.3166	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-17	1.248	0.6265	5	No	13	0.9375	0.4182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-18	1.29	0.4962	5	No	12	0.8933	0.5061	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-19	1.417	0.7685	5	No	14	1.093	0.4581	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-23A	1.261	0.7822	5	No	14	1.022	0.3378	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-25	1.237	0.8177	5	No	14	1.027	0.2961	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-33	1.066	0.5582	5	No	14	0.8119	0.3582	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-7D	0.6187	0.1957	5	No	14	0.4324	0.3455	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-14	0.11	0.056	4	No	15	0.0904	0.02472	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-15	0.1244	0.07151	4	No	15	0.1103	0.04654	33.33	Kaplan-Meier	ln(x)	0.01	Param.

Confidence Intervals - All Results (No Significant)

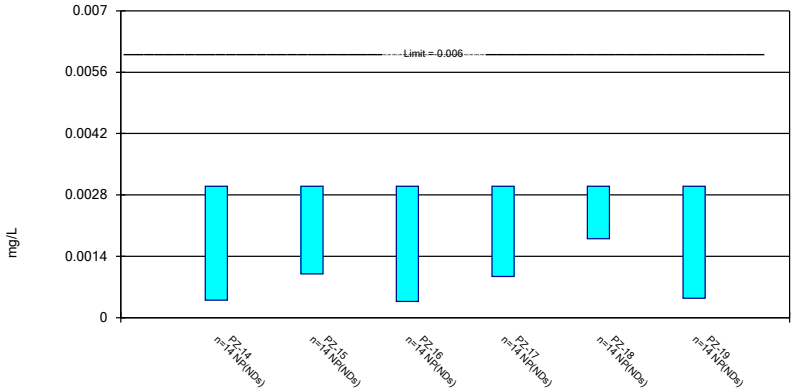
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/8/2021, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	PZ-16	0.1	0.05	4	No	15	0.0842	0.02444	60	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-17	0.1427	0.05527	4	No	15	0.1219	0.06678	33.33	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-18	0.12	0.08	4	No	15	0.1026	0.03489	53.33	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-19	0.15	0.064	4	No	15	0.1137	0.07902	13.33	None	No	0.01	NP (normality)
Fluoride (mg/L)	PZ-23A	0.13	0.052	4	No	15	0.1008	0.06131	40	None	No	0.01	NP (normality)
Fluoride (mg/L)	PZ-25	0.2526	0.154	4	No	15	0.2033	0.07277	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-33	0.15	0.06	4	No	15	0.1066	0.04413	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-7D	0.15	0.045	4	No	15	0.08973	0.03154	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-15	0.001	0.00005	0.001	No	14	0.0009321	0.0002539	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-16	0.001	0.000081	0.001	No	14	0.0009344	0.0002456	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-18	0.001	0.00043	0.001	No	14	0.0008909	0.0002877	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-19	0.001	0.000042	0.001	No	14	0.0009316	0.000256	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-23A	0.001	0.00015	0.001	No	14	0.0008039	0.0003903	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-33	0.001	0.00009	0.001	No	14	0.0008669	0.0003384	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-7D	0.001	0.000041	0.001	No	14	0.0009315	0.0002563	92.86	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14	0.03	0.003	0.03	No	14	0.02807	0.007216	92.86	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-15	0.03	0.0012	0.03	No	14	0.01154	0.01428	35.71	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-17	0.003	0.002	0.03	No	14	0.006336	0.01003	14.29	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-18	0.003	0.0024	0.03	No	14	0.006557	0.009935	14.29	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-19	0.01458	0.01014	0.03	No	14	0.01236	0.003135	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-23A	0.03	0.001	0.03	No	14	0.01964	0.01442	64.29	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-25	0.006651	0.005483	0.03	No	14	0.005979	0.001011	0	None	x^3	0.01	Param.
Lithium (mg/L)	PZ-7D	0.0034	0.0023	0.03	No	14	0.004757	0.007283	7.143	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-14	0.0002	0.00015	0.002	No	12	0.000185	0.00003896	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-15	0.0002	0.000097	0.002	No	12	0.0001914	0.00002973	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-16	0.0002	0.000068	0.002	No	12	0.000189	0.00003811	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-17	0.0002	0.000086	0.002	No	12	0.0001905	0.00003291	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-18	0.0002	0.000057	0.002	No	12	0.0001881	0.00004128	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-19	0.0002	0.0001	0.002	No	12	0.0001787	0.000051	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-23A	0.0002	0.00017	0.002	No	12	0.0001883	0.00003215	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-25	0.0002	0.000053	0.002	No	12	0.0001877	0.00004244	91.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-33	0.0002	0.000043	0.002	No	12	0.0001662	0.00006346	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-7D	0.0002	0.00006	0.002	No	12	0.0001761	0.00005588	83.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-14	0.01	0.0005	0.01	No	14	0.009321	0.002539	92.86	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-15	0.01	0.0004	0.01	No	14	0.009314	0.002566	92.86	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-16	0.01	0.0004	0.01	No	14	0.009314	0.002566	92.86	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-17	0.01	0.0004	0.01	No	14	0.009314	0.002566	92.86	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-19	0.0025	0.002	0.01	No	14	0.002771	0.002091	7.143	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-23A	0.01	0.0011	0.01	No	14	0.008693	0.003324	85.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-25	0.01	0.001	0.01	No	14	0.009357	0.002405	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-14	0.005	0.0015	0.05	No	14	0.004479	0.001327	85.71	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-15	0.005	0.0018	0.05	No	14	0.004771	0.0008552	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-19	0.005	0.0031	0.05	No	14	0.003907	0.00128	50	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-23A	0.005	0.0024	0.05	No	14	0.003671	0.001429	50	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-7D	0.005	0.0018	0.05	No	14	0.004307	0.001377	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-14	0.001	0.00006	0.002	No	14	0.0009329	0.0002512	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-15	0.001	0.0002	0.002	No	14	0.0006579	0.000411	57.14	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-16	0.001	0.00018	0.002	No	14	0.0006431	0.0004292	57.14	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-17	0.001	0.00022	0.002	No	14	0.0006829	0.0003839	57.14	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-18	0.001	0.000071	0.002	No	14	0.0007972	0.000403	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-19	0.0007501	0.0004714	0.002	No	14	0.0006107	0.0001967	7.143	None	No	0.01	Param.
Thallium (mg/L)	PZ-23A	0.001	0.00016	0.002	No	14	0.00048	0.0004049	35.71	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-25	0.001	0.00036	0.002	No	14	0.0007336	0.0003323	57.14	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-33	0.001	0.0001	0.002	No	14	0.0006879	0.0004351	64.29	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-7D	0.001	0.000085	0.002	No	14	0.0006831	0.0004421	64.29	None	No	0.01	NP (NDs)

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

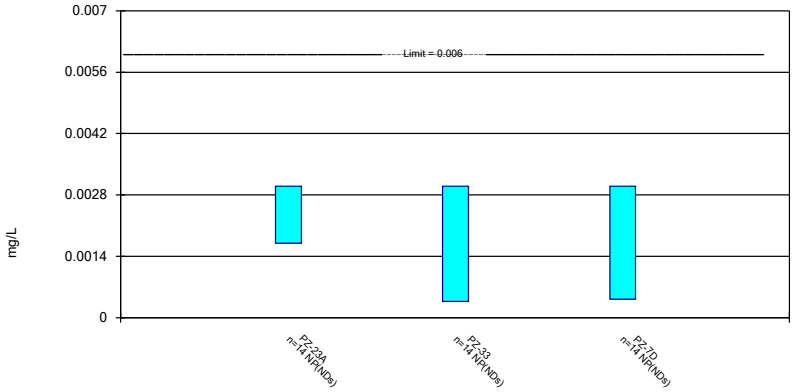


Constituent: Antimony Analysis Run 11/8/2021 3:54 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

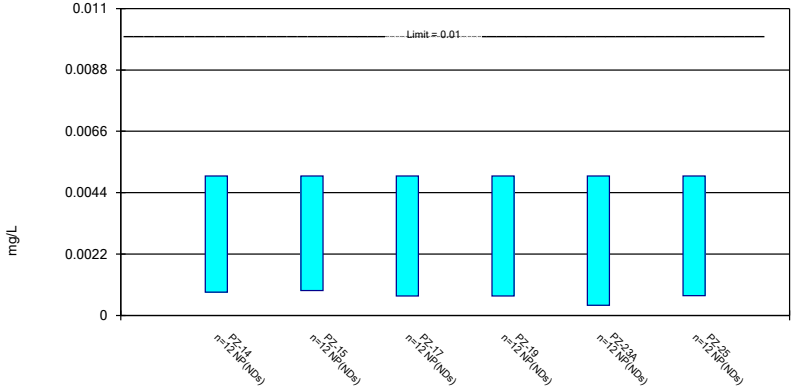


Constituent: Antimony Analysis Run 11/8/2021 3:54 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

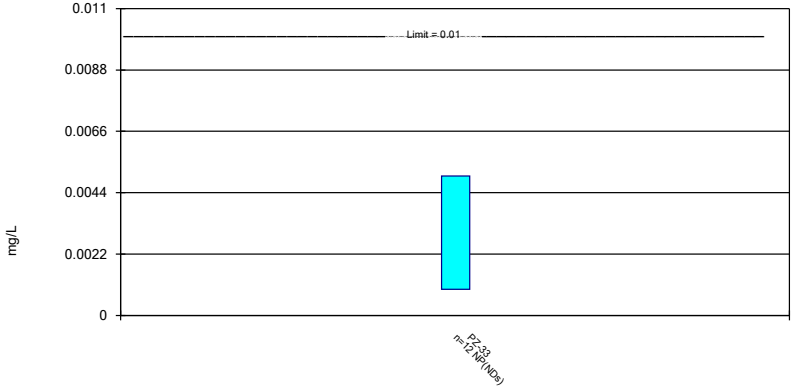


Constituent: Arsenic Analysis Run 11/8/2021 3:54 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

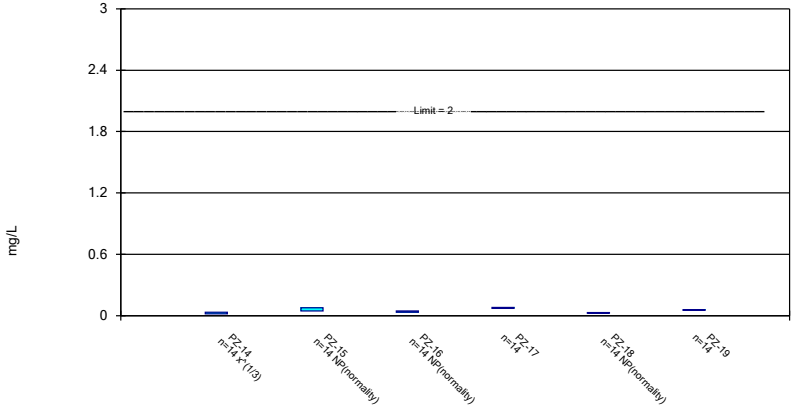
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 11/8/2021 3:54 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

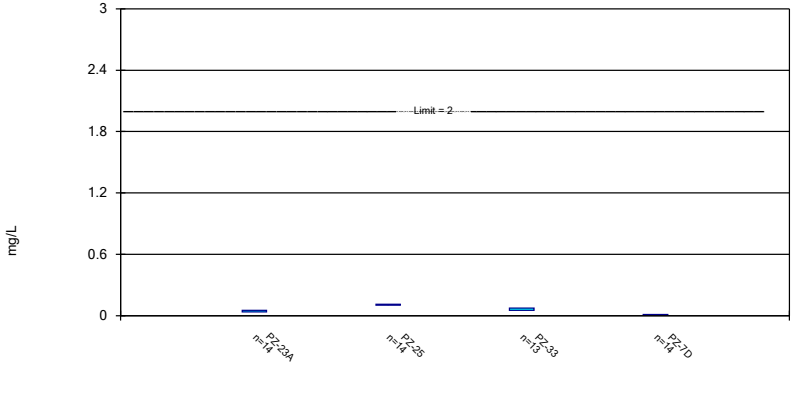


Constituent: Barium Analysis Run 11/8/2021 3:54 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

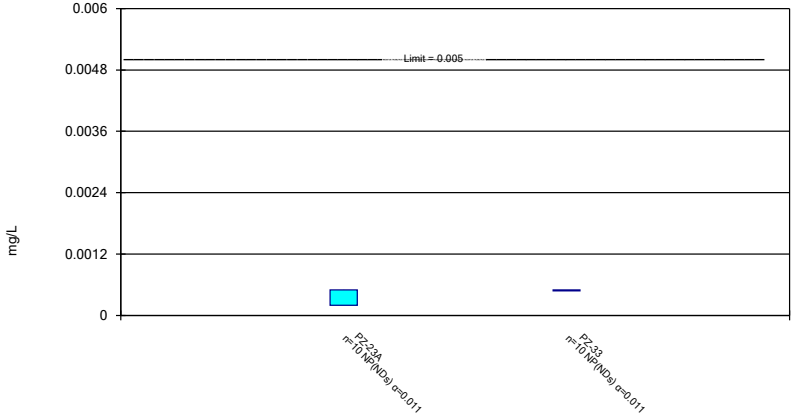


Constituent: Barium Analysis Run 11/8/2021 3:54 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

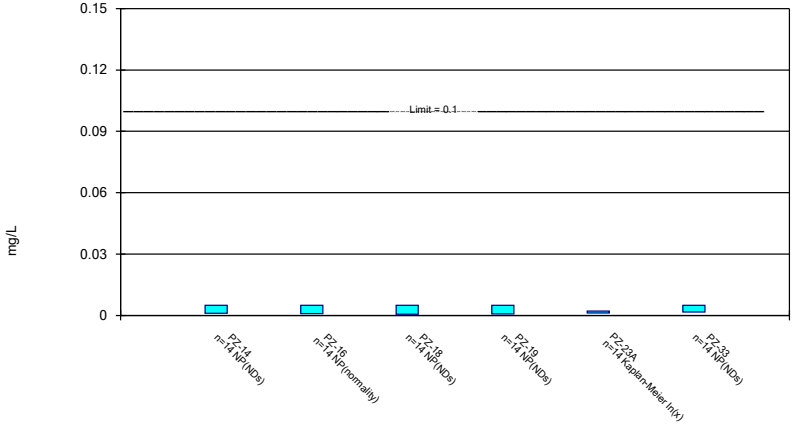


Constituent: Cadmium Analysis Run 11/8/2021 3:54 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

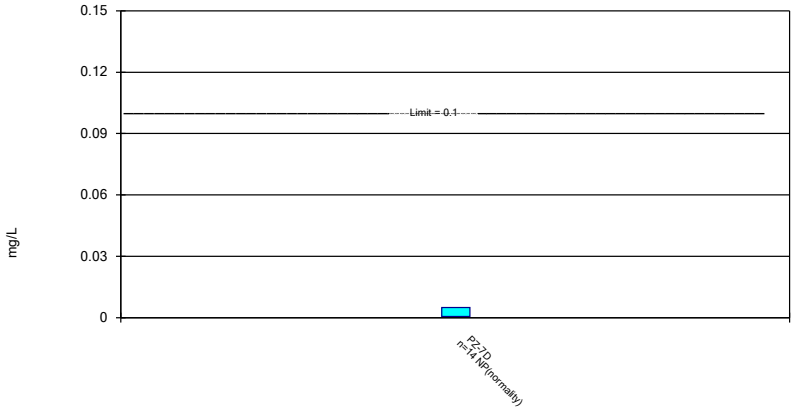
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/8/2021 3:54 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Non-Parametric Confidence Interval

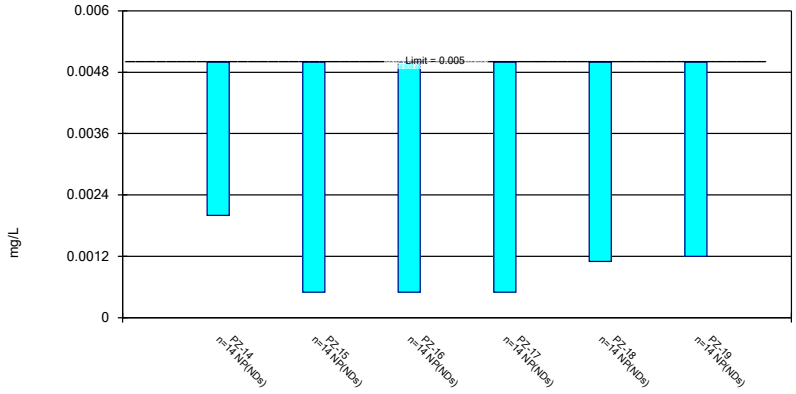
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/8/2021 3:54 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Non-Parametric Confidence Interval

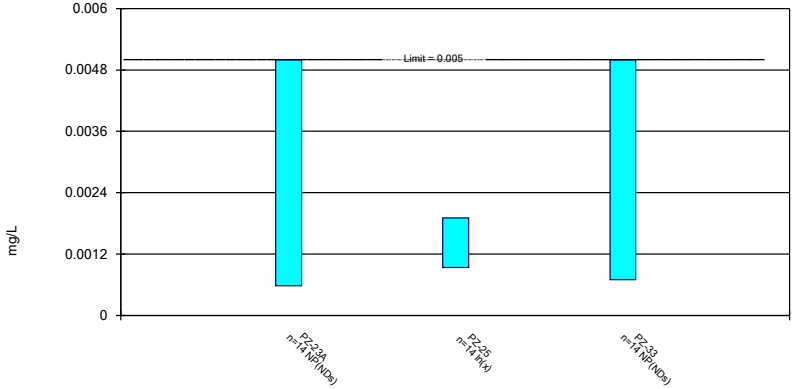
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt Analysis Run 11/8/2021 3:54 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric and Non-Parametric (NP) Confidence Interval

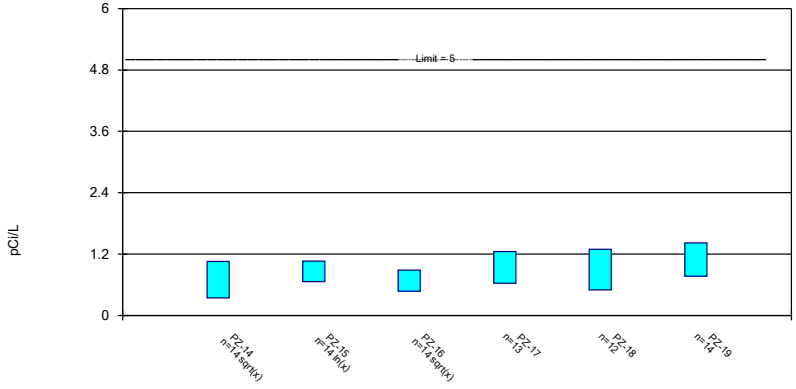
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 3:54 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric Confidence Interval

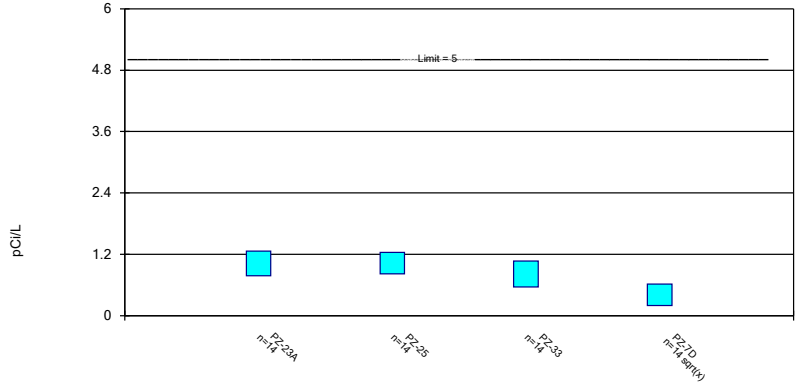
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 3:55 PM View: Appendix IV - Confiden
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric Confidence Interval

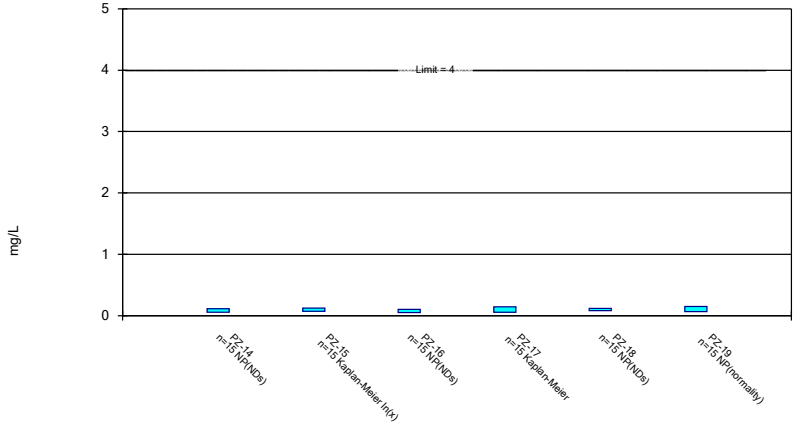
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 3:55 PM View: Appendix IV - Confiden
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric and Non-Parametric (NP) Confidence Interval

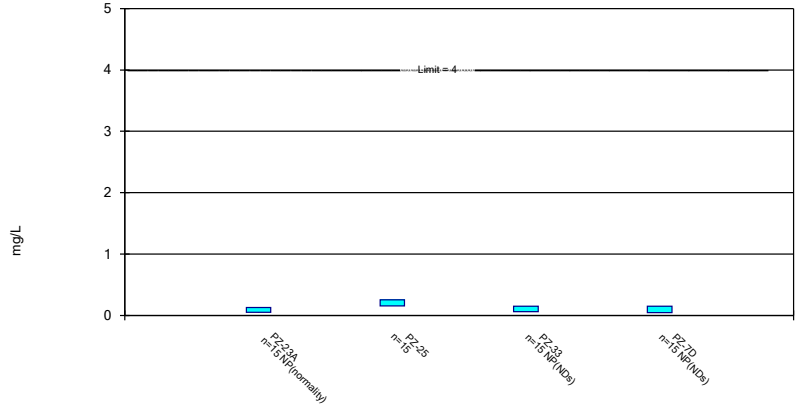
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/8/2021 3:55 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric and Non-Parametric (NP) Confidence Interval

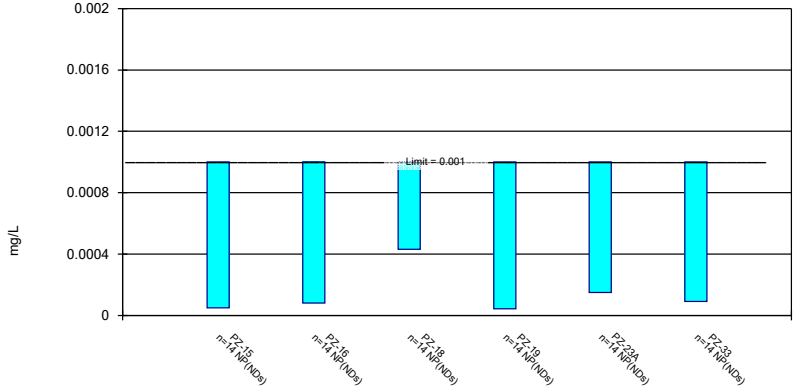
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/8/2021 3:55 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Non-Parametric Confidence Interval

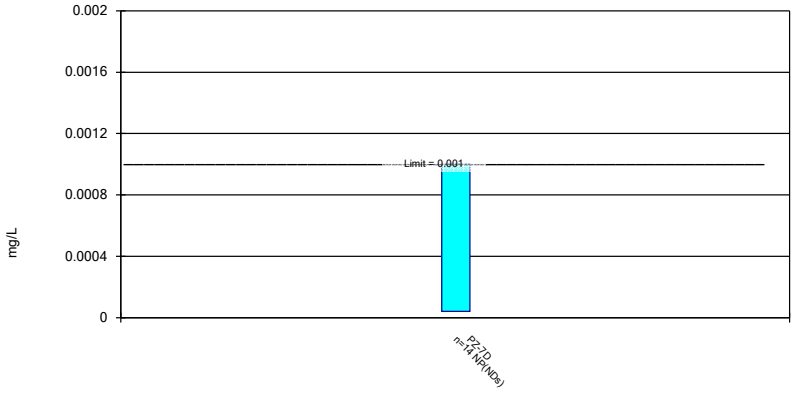
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/8/2021 3:55 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Non-Parametric Confidence Interval

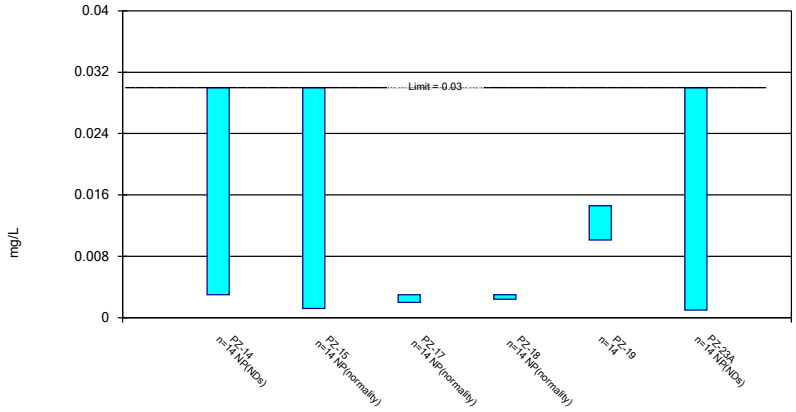
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/8/2021 3:55 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric and Non-Parametric (NP) Confidence Interval

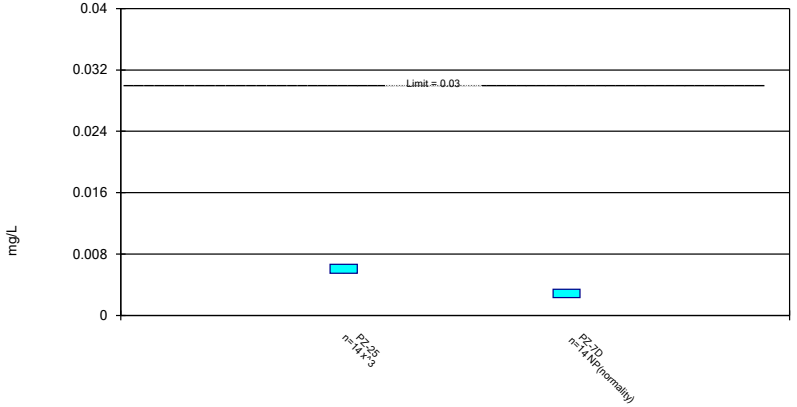
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 3:55 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric and Non-Parametric (NP) Confidence Interval

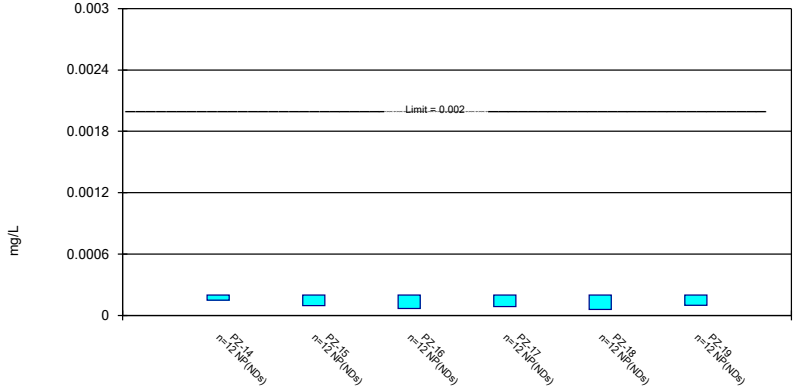
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 3:55 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

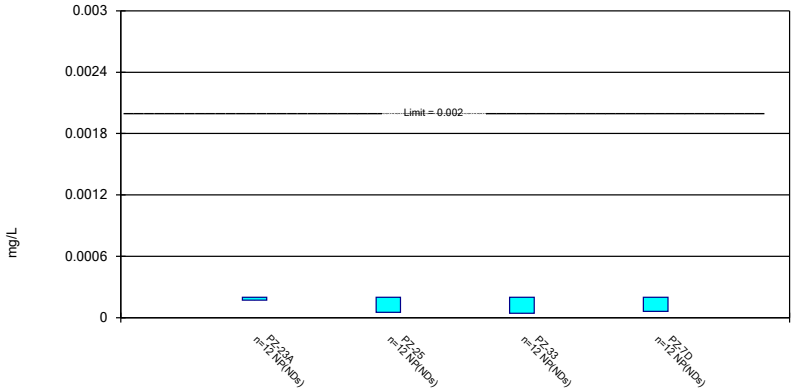


Constituent: Mercury Analysis Run 11/8/2021 3:55 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

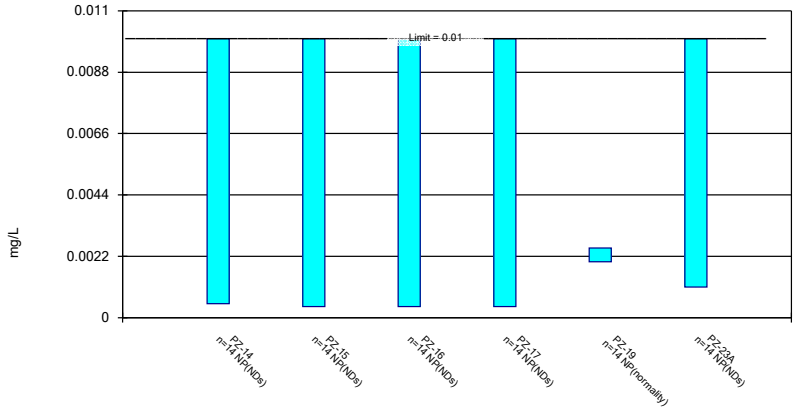


Constituent: Mercury Analysis Run 11/8/2021 3:55 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

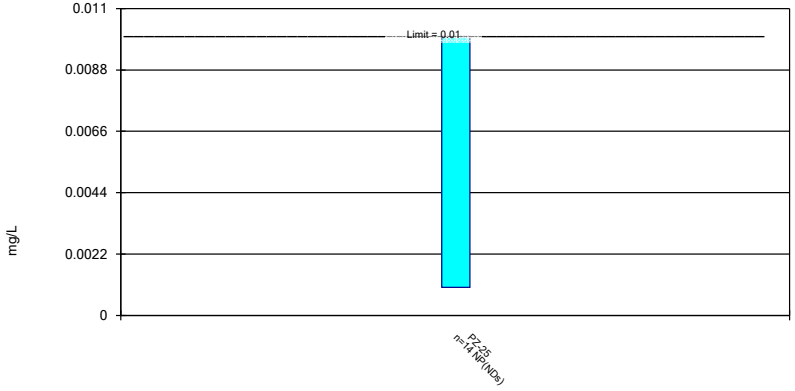


Constituent: Molybdenum Analysis Run 11/8/2021 3:55 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

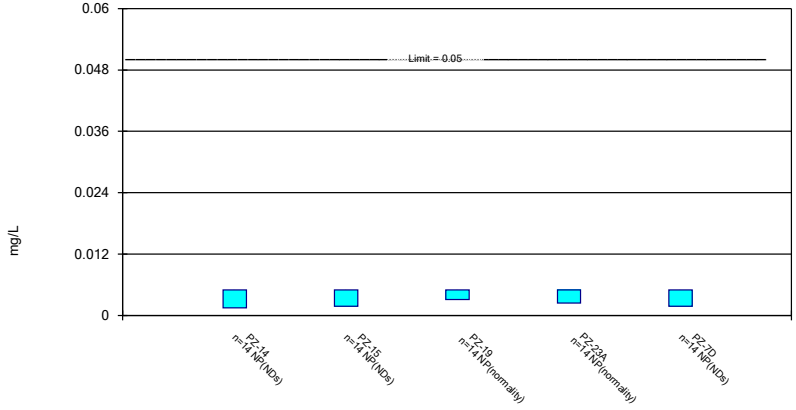


Constituent: Molybdenum Analysis Run 11/8/2021 3:55 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

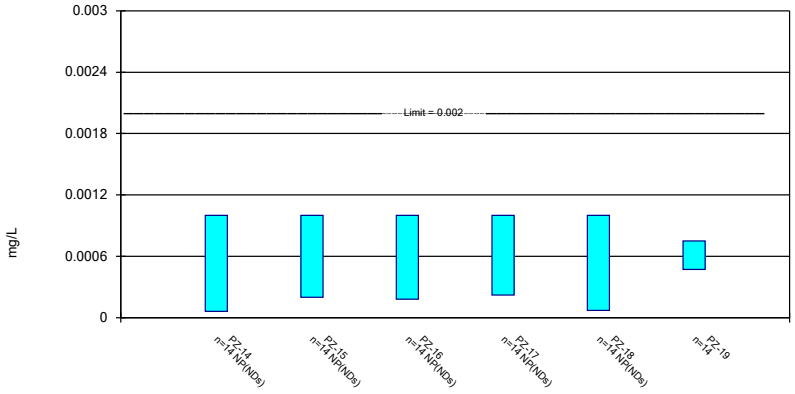
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 11/8/2021 3:55 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

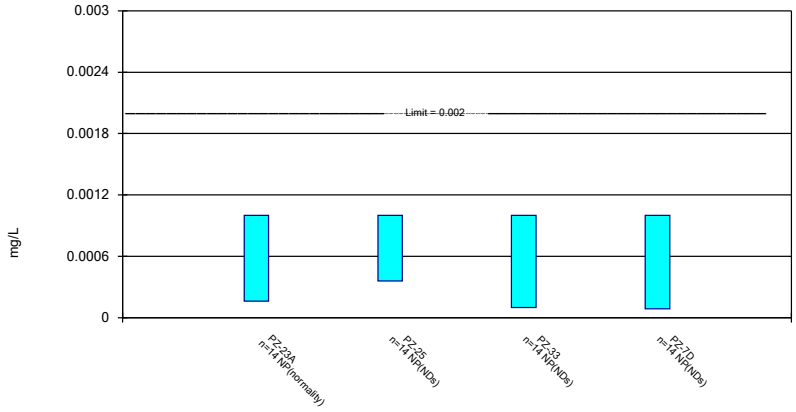


Constituent: Thallium Analysis Run 11/8/2021 3:55 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/8/2021 3:55 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	<0.003					
9/1/2016		0.001 (J)				
9/6/2016			<0.003			
9/7/2016				<0.003	<0.003	<0.003
12/7/2016	<0.003	<0.003	<0.003			
12/8/2016				<0.003	<0.003	<0.003
3/21/2017	0.0004 (J)					
3/22/2017		<0.003	<0.003	<0.003	<0.003	
3/23/2017						<0.003
7/11/2017	<0.003		<0.003			
7/12/2017		<0.003		<0.003	<0.003	<0.003
10/18/2017	<0.003	<0.003	<0.003	<0.003	<0.003	
10/19/2017						<0.003
2/20/2018	<0.003					
2/21/2018		<0.003	<0.003	<0.003	<0.003	<0.003
7/11/2018	<0.003					
7/12/2018		<0.003	<0.003			<0.003
8/15/2018					<0.003	
8/16/2018				<0.003		
9/12/2018	<0.003					
9/13/2018		<0.003	<0.003		<0.003	
9/14/2018				<0.003		<0.003
10/2/2019	<0.003	<0.003	<0.003	<0.003		
10/3/2019					<0.003	0.00044 (X)
3/25/2020	<0.003			0.00094 (J)		
3/26/2020		<0.003	<0.003		0.0018 (J)	<0.003
8/26/2020	<0.003	0.00062 (J)	0.00037 (J)	0.00061 (J)		<0.003
8/27/2020					<0.003	
10/6/2020	<0.003		<0.003			
10/7/2020		<0.003		<0.003	0.0014 (J)	<0.003
3/3/2021	<0.003					<0.003
3/4/2021		<0.003	<0.003	0.00055 (J)	<0.003	
9/15/2021	<0.003	<0.003	<0.003			
9/16/2021				<0.003	<0.003	<0.003
Mean	0.002814	0.002687	0.002812	0.002507	0.0028	0.002817
Std. Dev.	0.0006949	0.0007988	0.0007029	0.0009828	0.0005144	0.0006842
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0004	0.001	0.00037	0.00094	0.0018	0.00044

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-33	PZ-7D
8/31/2016	<0.003		
9/1/2016			<0.003
12/7/2016	<0.003		<0.003
12/8/2016		<0.003	
3/21/2017	<0.003		
3/22/2017			<0.003
3/23/2017		<0.003	
7/11/2017	<0.003		
7/12/2017		<0.003	<0.003
10/18/2017	<0.003		
10/19/2017		<0.003	<0.003
2/20/2018	<0.003		
2/21/2018		<0.003	<0.003
7/11/2018	<0.003		
7/12/2018		<0.003	<0.003
9/13/2018	<0.003		<0.003
9/14/2018		<0.003	
10/4/2018		<0.003	
9/10/2019	<0.003		
10/3/2019		<0.003	0.00029 (X)
3/25/2020	<0.003		
3/26/2020		<0.003	0.00042 (J)
8/26/2020	0.00038 (J)	<0.003	0.00031 (J)
10/6/2020	<0.003		
10/7/2020		0.00037 (J)	<0.003
3/3/2021	0.0017 (J)		
3/4/2021		<0.003	<0.003
9/15/2021	<0.003		
9/16/2021		<0.003	<0.003
Mean	0.00272	0.002812	0.00243
Std. Dev.	0.0007574	0.0007029	0.001133
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.0017	0.00037	0.00042

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-17	PZ-19	PZ-23A	PZ-25
8/31/2016	<0.005				<0.005	
9/1/2016		<0.005				
9/7/2016			<0.005	<0.005		
9/8/2016						0.0017 (J)
12/7/2016	<0.005	<0.005			<0.005	
12/8/2016			<0.005	<0.005		<0.005
3/21/2017	<0.005				<0.005	
3/22/2017		0.0011 (J)	0.0007 (J)			0.001 (J)
3/23/2017				0.0007 (J)		
7/11/2017	<0.005				<0.005	<0.005
7/12/2017		0.0006 (J)	<0.005	<0.005		
10/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005
10/19/2017				<0.005		
2/20/2018	<0.005				<0.005	
2/21/2018		0.00089 (J)	0.00072 (J)	<0.005		0.00071 (J)
7/11/2018	<0.005				<0.005	
7/12/2018		<0.005		<0.005		<0.005
8/16/2018			0.0007 (J)			
9/12/2018	<0.005					
9/13/2018		<0.005			<0.005	<0.005
9/14/2018			<0.005	<0.005		
9/10/2019					0.00036 (X)	
10/2/2019	0.00083 (X)	<0.005	<0.005			0.00063 (X)
10/3/2019				<0.005		
3/25/2020	<0.005		<0.005		<0.005	<0.005
3/26/2020		<0.005		<0.005		
8/26/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/15/2021	<0.005	<0.005			<0.005	<0.005
9/16/2021			<0.005	<0.005		
Mean	0.004652	0.003966	0.003927	0.004642	0.004613	0.00367
Std. Dev.	0.001204	0.001874	0.001942	0.001241	0.001339	0.001981
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00083	0.00089	0.0007	0.0007	0.00036	0.00071

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-33
12/8/2016	<0.005
3/23/2017	0.0007 (J)
7/12/2017	<0.005
10/19/2017	<0.005
2/21/2018	0.00094 (J)
7/12/2018	<0.005
9/14/2018	<0.005
10/4/2018	<0.005
10/3/2019	<0.005
3/26/2020	<0.005
8/26/2020	<0.005
9/16/2021	<0.005
Mean	0.004303
Std. Dev.	0.001628
Upper Lim.	0.005
Lower Lim.	0.00094

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	0.0253					
9/1/2016		0.103				
9/6/2016			0.0794			
9/7/2016				0.0823	0.0717	0.067
12/7/2016	0.065	0.0781	0.0689			
12/8/2016				0.0668	0.0513	0.0522
3/21/2017	0.0379					
3/22/2017		0.0589	0.0423	0.0821	0.0273	
3/23/2017						0.0591
7/11/2017	0.036		0.0467			
7/12/2017		0.0613		0.0805	0.0269	0.0604
10/18/2017	0.0247	0.0617	0.0446	0.0776	0.0258	
10/19/2017						0.0542
2/20/2018	0.03					
2/21/2018		0.076	0.046	0.073	0.029	0.058
7/11/2018	0.027					
7/12/2018		0.056	0.043			0.057
8/15/2018					0.027	
8/16/2018				0.081		
9/12/2018	0.022					
9/13/2018		0.048	0.038		0.023	
9/14/2018				0.081		0.058
10/2/2019	0.017	0.049	0.038	0.074		
10/3/2019					0.025	0.057
3/25/2020	0.021			0.077		
3/26/2020		0.048	0.034		0.023	0.052
8/26/2020	0.016	0.053	0.036	0.077		0.049
8/27/2020					0.023	
10/6/2020	0.016		0.034			
10/7/2020		0.049		0.074	0.023	0.054
3/3/2021	0.017					0.055
3/4/2021		0.047	0.035	0.071	0.023	
9/15/2021	0.014	0.045	0.032			
9/16/2021				0.064	0.022	0.053
Mean	0.02635	0.05957	0.04414	0.07581	0.03007	0.05614
Std. Dev.	0.01338	0.01623	0.01373	0.005696	0.01406	0.004441
Upper Lim.	0.03343	0.076	0.0467	0.07984	0.029	0.05928
Lower Lim.	0.01769	0.047	0.034	0.07177	0.023	0.05299

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	0.0407			
9/1/2016				0.0117
9/8/2016		0.102		
12/7/2016	0.0581			0.0133
12/8/2016		0.102	0.162 (o)	
3/21/2017	0.0678			
3/22/2017		0.0951		0.0114
3/23/2017			0.0753	
7/11/2017	0.0574	0.102		
7/12/2017			0.0756	0.0097 (J)
10/18/2017	0.0351	0.0997		
10/19/2017			0.0681	0.0091 (J)
2/20/2018	0.05			
2/21/2018		0.11	0.085	0.0086 (J)
7/11/2018	0.051			
7/12/2018		0.1	0.076	0.0093 (J)
9/13/2018	0.038	0.1		0.0078 (J)
9/14/2018			0.071	
10/4/2018			0.072	
9/10/2019	0.029			
10/2/2019		0.11		
10/3/2019			0.057	0.007 (X)
3/25/2020	0.048	0.11		
3/26/2020			0.057	0.0072 (J)
8/26/2020	0.039	0.1	0.051	0.007 (J)
10/6/2020	0.037			
10/7/2020		0.11	0.048	0.0061 (J)
3/3/2021	0.039	0.12		
3/4/2021			0.047	0.0061
9/15/2021	0.037	0.11		
9/16/2021			0.039	0.0062
Mean	0.04479	0.1051	0.06323	0.008607
Std. Dev.	0.01087	0.006668	0.01416	0.002278
Upper Lim.	0.05249	0.1098	0.07376	0.01022
Lower Lim.	0.03709	0.1003	0.0527	0.006993

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-33
8/31/2016	0.0002 (J)	
12/7/2016	0.0002 (J)	
12/8/2016		<0.0005
3/21/2017	<0.0005	
3/23/2017		0.0001 (J)
7/11/2017	<0.0005	
7/12/2017		<0.0005
10/18/2017	<0.0005	
10/19/2017		<0.0005
2/20/2018	<0.0005	
2/21/2018		<0.0005
7/11/2018	<0.0005	
7/12/2018		<0.0005
9/13/2018	<0.0005	
9/14/2018		<0.0005
10/4/2018		<0.0005
8/26/2020	<0.0005	<0.0005
9/15/2021	<0.0005	
9/16/2021		<0.0005
Mean	0.00044	0.00046
Std. Dev.	0.0001265	0.0001265
Upper Lim.	0.0005	0.0005
Lower Lim.	0.0002	0.0005

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-16	PZ-18	PZ-19	PZ-23A	PZ-33
8/31/2016	<0.005				<0.005	
9/6/2016		<0.005				
9/7/2016			<0.005	<0.005		
12/7/2016	<0.005	<0.005			<0.005	
12/8/2016			<0.005	<0.005		<0.005
3/21/2017	<0.005				0.0009 (J)	
3/22/2017		0.0008 (J)	<0.005			
3/23/2017				<0.005		0.0017 (J)
7/11/2017	<0.005	<0.005			0.0016 (J)	
7/12/2017			<0.005	<0.005		<0.005
10/18/2017	<0.005	<0.005	<0.005		0.0019 (J)	
10/19/2017				<0.005		<0.005
2/20/2018	<0.005				<0.005	
2/21/2018		<0.005	<0.005	<0.005		<0.005
7/11/2018	<0.005				0.0021 (J)	
7/12/2018		<0.005		<0.005		<0.005
8/15/2018			<0.005			
9/12/2018	<0.005					
9/13/2018		<0.005	<0.005		0.0022 (J)	
9/14/2018				<0.005		<0.005
10/4/2018						<0.005
9/10/2019					0.0044 (X)	
10/2/2019	<0.005	0.00044 (X)				
10/3/2019			<0.005	<0.005		<0.005
3/25/2020	0.0013 (J)				0.0012 (J)	
3/26/2020		0.0013 (J)	0.00056 (J)	0.00073 (J)		<0.005
8/26/2020	0.0011 (J)	0.00087 (J)		<0.005	0.0014 (J)	<0.005
8/27/2020			<0.005			
10/6/2020	0.00098 (J)	0.0011 (J)			0.0015 (J)	
10/7/2020			<0.005	<0.005		<0.005
3/3/2021	0.00097 (J)			<0.005	0.0015 (J)	
3/4/2021		0.0012 (J)	<0.005			<0.005
9/15/2021	0.0014 (J)	0.0011 (J)			0.0019 (J)	
9/16/2021			<0.005	<0.005		<0.005
Mean	0.003625	0.002986	0.004683	0.004695	0.002543	0.004764
Std. Dev.	0.001917	0.002099	0.001187	0.001141	0.001558	0.000882
Upper Lim.	0.005	0.005	0.005	0.005	0.002177	0.005
Lower Lim.	0.0011	0.00087	0.00056	0.00073	0.001208	0.0017

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-7D
9/1/2016	<0.005
12/7/2016	0.003 (J)
3/22/2017	0.0005 (J)
7/12/2017	<0.005
10/19/2017	0.0005 (J)
2/21/2018	<0.005
7/12/2018	<0.005
9/13/2018	<0.005
10/3/2019	0.0004 (X)
3/26/2020	0.0016 (J)
8/26/2020	0.0011 (J)
10/7/2020	0.0014 (J)
3/4/2021	0.0024 (J)
9/16/2021	0.0025 (J)
Mean	0.002743
Std. Dev.	0.001903
Upper Lim.	0.005
Lower Lim.	0.0005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	<0.005					
9/1/2016		0.0012 (J)				
9/6/2016			0.0005 (J)			
9/7/2016				0.0011 (J)	0.0011 (J)	0.0012 (J)
12/7/2016	0.002 (J)	0.0005 (J)	<0.005			
12/8/2016				0.0006 (J)	<0.005	0.0009 (J)
3/21/2017	<0.005					
3/22/2017		0.0005 (J)	<0.005	0.0006 (J)	<0.005	
3/23/2017						<0.005
7/11/2017	0.0003 (J)		<0.005			
7/12/2017		0.0004 (J)		0.0005 (J)	<0.005	<0.005
10/18/2017	<0.005	0.0004 (J)	<0.005	0.0005 (J)	<0.005	
10/19/2017						<0.005
2/20/2018	<0.005					
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.005
7/11/2018	<0.005					
7/12/2018		<0.005	<0.005			<0.005
8/15/2018					<0.005	
8/16/2018				<0.005		
9/12/2018	<0.005					
9/13/2018		<0.005	<0.005		<0.005	
9/14/2018				<0.005		<0.005
10/2/2019	<0.005	<0.005	<0.005	<0.005		
10/3/2019					<0.005	<0.005
3/25/2020	<0.005			0.00032 (J)		
3/26/2020		<0.005	<0.005		<0.005	<0.005
8/26/2020	<0.005	<0.005	<0.005	<0.005		<0.005
8/27/2020					<0.005	
10/6/2020	<0.005		<0.005			
10/7/2020		<0.005		<0.005	<0.005	<0.005
3/3/2021	<0.005					<0.005
3/4/2021		<0.005	<0.005	<0.005	<0.005	
9/15/2021	<0.005	<0.005	<0.005			
9/16/2021				<0.005	<0.005	<0.005
Mean	0.00445	0.003429	0.004679	0.003116	0.004721	0.004436
Std. Dev.	0.001437	0.002196	0.001203	0.002264	0.001042	0.001436
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.002	0.0005	0.0005	0.0005	0.0011	0.0012

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33
8/31/2016	<0.005		
9/8/2016		0.0008 (J)	
12/7/2016	0.0008 (J)		
12/8/2016		<0.005	0.0041 (J)
3/21/2017	<0.005		
3/22/2017		0.001 (J)	
3/23/2017			0.0008 (J)
7/11/2017	<0.005	0.001 (J)	
7/12/2017			0.0007 (J)
10/18/2017	<0.005	0.0011 (J)	
10/19/2017			0.0005 (J)
2/20/2018	<0.005		
2/21/2018		0.00075 (J)	0.0012 (J)
7/11/2018	<0.005		
7/12/2018		0.0008 (J)	0.00053 (J)
9/13/2018	<0.005	0.001 (J)	
9/14/2018			<0.005
10/4/2018			<0.005
9/10/2019	<0.005		
10/2/2019		0.0017 (X)	
10/3/2019			<0.005
3/25/2020	0.0003 (J)	0.0018 (J)	
3/26/2020			<0.005
8/26/2020	0.00058 (J)	0.0016 (J)	<0.005
10/6/2020	0.00067 (J)		
10/7/2020		0.0014 (J)	<0.005
3/3/2021	0.00049 (J)	0.0016 (J)	
3/4/2021			<0.005
9/15/2021	<0.005	0.002 (J)	
9/16/2021			<0.005
Mean	0.003417	0.001539	0.003416
Std. Dev.	0.002206	0.001077	0.002085
Upper Lim.	0.005	0.001906	0.005
Lower Lim.	0.00058	0.0009369	0.0007

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	1.77					
9/1/2016		1.19				
9/6/2016			1.12			
9/7/2016				1.06 (U)	1.51	1.22
12/7/2016	0.672 (U)	1.88	1.37			
12/8/2016				1.3	1.29	1.69
3/21/2017	0.33 (U)					
3/22/2017		0.617 (U)	0.435 (U)	0.566 (U)	0.799 (U)	
3/23/2017						1.07
7/11/2017	0.701 (U)		0.76 (U)			
7/12/2017		0.674 (U)		0.856 (U)	0.4 (U)	0.849 (U)
10/18/2017	0.808 (U)	0.844 (U)	0.847 (U)	0.957	0.613 (U)	
10/19/2017						0.398 (U)
2/20/2018	2.12					
2/21/2018		0.842 (U)	0.373 (U)	1.4	0.736 (U)	1.03 (U)
7/11/2018	0.232 (U)					
7/12/2018		0.552 (U)	0.408 (U)			1.28 (U)
9/12/2018	0.532 (U)					
9/13/2018		0.662 (U)	0.472 (U)		0.708 (U)	
9/14/2018				1.16		0.74 (U)
10/2/2019	0.915 (U)	1 (U)	0.65 (U)	1.34 (U)		
10/3/2019					2.07	1.9
3/25/2020	0.694 (U)			0.385 (U)		
3/26/2020		0.863 (U)	0.522 (U)		1.05	1.66
8/26/2020	0.115 (U)	0.681 (U)	0.499 (U)	1.62		0.703 (U)
10/6/2020	0.265 (U)		1.12 (U)			
10/7/2020		1.22 (U)		0.432 (U)	0.365 (U)	0.893
3/3/2021	0.328 (U)					0.469 (U)
3/4/2021		0.674 (U)	0.404 (U)	0.734 (U)	0.498 (U)	
9/15/2021	0.872 (U)	0.729 (U)	0.721 (U)			
9/16/2021				0.377 (U)	0.681 (U)	1.4
Mean	0.7396	0.8877	0.6929	0.9375	0.8933	1.093
Std. Dev.	0.5739	0.3508	0.3166	0.4182	0.5061	0.4581
Upper Lim.	1.054	1.061	0.8877	1.248	1.29	1.417
Lower Lim.	0.3414	0.663	0.4702	0.6265	0.4962	0.7685

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	1.85			
9/1/2016				0.88 (U)
9/8/2016		1.41		
12/7/2016	0.844 (U)			0.179 (U)
12/8/2016		1.39	0.968 (U)	
3/21/2017	0.832 (U)			
3/22/2017		0.852 (U)		0.279 (U)
3/23/2017			0.444 (U)	
7/11/2017	0.824 (U)	1.04		
7/12/2017			0.814 (U)	0.125 (U)
10/18/2017	1.19	0.678 (U)		
10/19/2017			0.748 (U)	0.329 (U)
2/20/2018	0.975 (U)			
2/21/2018		0.863 (U)	1.05 (U)	0.504 (U)
7/11/2018	1.29			
7/12/2018		1.42	0.751 (U)	0.188 (U)
9/13/2018	0.765 (U)	0.766 (U)		0.0542 (U)
9/14/2018			1.01 (U)	
10/4/2018			1.05	
9/10/2019	0.575 (U)			
10/2/2019		1.48		
10/3/2019			1.62 (U)	1.37
3/25/2020	1.39	0.91 (U)		
3/26/2020			0.473 (U)	0.43 (U)
8/26/2020	0.774 (U)	0.95 (U)	0.782 (U)	0.572 (U)
10/6/2020	1.24 (U)			
10/7/2020		1.01 (U)	0.442 (U)	0.232 (U)
3/3/2021	1.01 (U)	0.545 (U)		
3/4/2021			1.03 (U)	0.529 (U)
9/15/2021	0.742 (U)	1.07 (U)		
9/16/2021			0.184 (U)	0.382 (U)
Mean	1.022	1.027	0.8119	0.4324
Std. Dev.	0.3378	0.2961	0.3582	0.3455
Upper Lim.	1.261	1.237	1.066	0.6187
Lower Lim.	0.7822	0.8177	0.5582	0.1957

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	0.13 (J)					
9/1/2016		0.06 (J)				
9/6/2016			0.09 (J)			
9/7/2016				0.03 (J)	0.12 (J)	0.15 (J)
12/7/2016	0.07 (J)	0.09 (J)	0.09 (J)			
12/8/2016				0.18 (J)	0.18 (J)	0.12 (J)
3/21/2017	<0.1					
3/22/2017		0.11 (J)	0.04 (J)	0.09 (J)	0.08 (J)	
3/23/2017						0.14 (J)
7/11/2017	0.05 (J)		0.05 (J)			
7/12/2017		0.23 (J)		0.21 (J)	0.17 (J)	0.07 (J)
10/18/2017	0.11 (J)	0.19 (J)	0.04 (J)	0.24 (J)	0.06 (J)	
10/19/2017						<0.1
2/20/2018	0.04 (J)					
2/21/2018		0.093 (J)	<0.1	0.24 (J)	0.086 (J)	0.37
7/11/2018	<0.1					
7/12/2018		<0.1	<0.1			0.17 (J)
8/15/2018					<0.1	
8/16/2018				0.073 (J)		
9/12/2018	<0.1					
9/13/2018		0.15 (J)	<0.1		<0.1	
9/14/2018				<0.1		<0.1
3/27/2019	<0.1		<0.1		<0.1	
3/28/2019		0.1		0.15		0.074
10/2/2019	0.056 (X)	0.075 (X)	0.053 (X)	0.063 (X)		
10/3/2019					0.043 (X)	0.084 (X)
3/25/2020	<0.1			<0.1		
3/26/2020		0.056 (J)	<0.1		<0.1	0.077 (J)
8/26/2020	<0.1	<0.1	<0.1	<0.1		0.062 (J)
8/27/2020					<0.1	
10/6/2020	<0.1		<0.1			
10/7/2020		<0.1		<0.1	<0.1	0.064 (J)
3/3/2021	<0.1					0.058 (J)
3/4/2021		<0.1	<0.1	<0.1	<0.1	
9/15/2021	<0.1	<0.1	<0.1			
9/16/2021				0.052 (J)	<0.1	0.067 (J)
Mean	0.0904	0.1103	0.0842	0.1219	0.1026	0.1137
Std. Dev.	0.02472	0.04654	0.02444	0.06678	0.03489	0.07902
Upper Lim.	0.11	0.1244	0.1	0.1427	0.12	0.15
Lower Lim.	0.056	0.07151	0.05	0.05527	0.08	0.064

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	0.13 (J)			
9/1/2016				<0.1
9/8/2016		0.25 (J)		
12/7/2016	0.13 (J)			0.15 (J)
12/8/2016		0.22 (J)	0.21 (J)	
3/21/2017	0.05 (J)			
3/22/2017		0.16 (J)		0.09 (J)
3/23/2017			0.18 (J)	
7/11/2017	0.05 (J)	0.23 (J)		
7/12/2017			0.06 (J)	0.02 (J)
10/18/2017	<0.1	0.28 (J)		
10/19/2017			<0.1	<0.1
2/20/2018	0.3 (J)			
2/21/2018		0.29 (J)	0.039 (J)	0.045 (J)
7/11/2018	0.077 (J)			
7/12/2018		0.21 (J)	<0.1	<0.1
9/13/2018	<0.1	0.22 (J)		<0.1
9/14/2018			<0.1	
10/4/2018			0.15 (J)	
3/27/2019	<0.1	0.37		
3/28/2019			<0.1	<0.1
9/10/2019	<0.1			
10/2/2019		0.16 (X)		
10/3/2019			0.06 (X)	0.041 (X)
3/25/2020	0.066 (J)	0.13 (J)		
3/26/2020			<0.1	<0.1
8/26/2020	0.057 (J)	0.14	<0.1	<0.1
10/6/2020	0.052 (J)			
10/7/2020		0.13	<0.1	<0.1
3/3/2021	<0.1	0.12		
3/4/2021			<0.1	<0.1
9/15/2021	<0.1	0.14		
9/16/2021			<0.1	<0.1
Mean	0.1008	0.2033	0.1066	0.08973
Std. Dev.	0.06131	0.07277	0.04413	0.03154
Upper Lim.	0.13	0.2526	0.15	0.15
Lower Lim.	0.052	0.154	0.06	0.045

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-15	PZ-16	PZ-18	PZ-19	PZ-23A	PZ-33
8/31/2016					<0.001	
9/1/2016	<0.001					
9/6/2016		<0.001				
9/7/2016			<0.001	<0.001		
12/7/2016	<0.001	<0.001			<0.001	
12/8/2016			<0.001	<0.001		<0.001
3/21/2017					<0.001	
3/22/2017	5E-05 (J)	<0.001	<0.001			
3/23/2017				<0.001		9E-05 (J)
7/11/2017		<0.001			<0.001	
7/12/2017	<0.001		<0.001	<0.001		<0.001
10/18/2017	<0.001	<0.001	<0.001		<0.001	
10/19/2017				<0.001		<0.001
2/20/2018					<0.001	
2/21/2018	<0.001	<0.001	0.00043 (J)	<0.001		<0.001
7/11/2018					<0.001	
7/12/2018	<0.001	<0.001		<0.001		<0.001
8/15/2018			<0.001			
9/13/2018	<0.001	<0.001	<0.001		<0.001	
9/14/2018				<0.001		<0.001
10/4/2018						<0.001
9/10/2019					<0.001	
10/2/2019	<0.001	8.1E-05 (X)				
10/3/2019			<0.001	<0.001		4.7E-05 (X)
3/25/2020					0.00015 (J)	
3/26/2020	<0.001	<0.001	<0.001	<0.001		<0.001
8/26/2020	<0.001	<0.001		<0.001	<0.001	<0.001
8/27/2020			<0.001			
10/6/2020		<0.001			4.7E-05 (J)	
10/7/2020	<0.001		4.2E-05 (J)	4.2E-05 (J)		<0.001
3/3/2021				<0.001	5.8E-05 (J)	
3/4/2021	<0.001	<0.001	<0.001			<0.001
9/15/2021	<0.001	<0.001			<0.001	
9/16/2021			<0.001	<0.001		<0.001
Mean	0.0009321	0.0009344	0.0008909	0.0009316	0.0008039	0.0008669
Std. Dev.	0.0002539	0.0002456	0.0002877	0.000256	0.0003903	0.0003384
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5E-05	8.1E-05	0.00043	4.2E-05	0.00015	9E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-7D
9/1/2016	<0.001
12/7/2016	<0.001
3/22/2017	<0.001
7/12/2017	<0.001
10/19/2017	<0.001
2/21/2018	<0.001
7/12/2018	<0.001
9/13/2018	<0.001
10/3/2019	<0.001
3/26/2020	<0.001
8/26/2020	<0.001
10/7/2020	<0.001
3/4/2021	4.1E-05 (J)
9/16/2021	<0.001
Mean	0.0009315
Std. Dev.	0.0002563
Upper Lim.	0.001
Lower Lim.	4.1E-05

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-17	PZ-18	PZ-19	PZ-23A
8/31/2016	<0.03					<0.03
9/1/2016		<0.03				
9/7/2016			<0.03	<0.03	0.0082 (J)	
12/7/2016	0.003 (J)	<0.03				<0.03
12/8/2016			<0.03	<0.03	0.0061 (J)	
3/21/2017	<0.03					<0.03
3/22/2017		0.0011 (J)	0.0021 (J)	0.0029 (J)		
3/23/2017					0.0122 (J)	
7/11/2017	<0.03					<0.03
7/12/2017		<0.03	0.002 (J)	0.0024 (J)	0.013 (J)	
10/18/2017	<0.03	<0.03	0.002 (J)	0.0027 (J)		<0.03
10/19/2017					0.013 (J)	
2/20/2018	<0.03					<0.03
2/21/2018		<0.03	0.0022 (J)	0.0021 (J)	0.0085 (J)	
7/11/2018	<0.03					<0.03
7/12/2018		0.0012 (J)			0.013 (J)	
8/15/2018				0.0027 (J)		
8/16/2018			0.0027 (J)			
9/12/2018	<0.03					
9/13/2018		0.0013 (J)		0.0029 (J)		<0.03
9/14/2018			0.0025 (J)		0.018 (J)	
9/10/2019						<0.03
10/2/2019	<0.03	0.0013 (X)	0.0024 (X)			
10/3/2019				0.0027 (X)	0.016 (X)	
3/25/2020	<0.03		0.003 (J)			0.0011 (J)
3/26/2020		0.0014 (J)		0.0027 (J)	0.013 (J)	
8/26/2020	<0.03	0.0013 (J)	0.0028 (J)		0.011 (J)	0.0011 (J)
8/27/2020				0.0025 (J)		
10/6/2020	<0.03					0.00097 (J)
10/7/2020		0.0013 (J)	0.0029 (J)	0.003 (J)	0.013 (J)	
3/3/2021	<0.03				0.015 (J)	0.001 (J)
3/4/2021		0.0014 (J)	0.002 (J)	0.0029 (J)		
9/15/2021	<0.03	0.0013 (J)				0.00085 (J)
9/16/2021			0.0021 (J)	0.0023 (J)	0.013 (J)	
Mean	0.02807	0.01154	0.006336	0.006557	0.01236	0.01964
Std. Dev.	0.007216	0.01428	0.01003	0.009935	0.003135	0.01442
Upper Lim.	0.03	0.03	0.003	0.003	0.01458	0.03
Lower Lim.	0.003	0.0012	0.002	0.0024	0.01014	0.001

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-7D
9/1/2016		0.0022 (J)
9/8/2016	0.0038 (J)	
12/7/2016		0.0023 (J)
12/8/2016	0.0038 (J)	
3/22/2017	0.0068 (J)	0.0025 (J)
7/11/2017	0.0059 (J)	
7/12/2017		0.0033 (J)
10/18/2017	0.0057 (J)	
10/19/2017		<0.03
2/21/2018	0.0063 (J)	0.0034 (J)
7/12/2018	0.0063 (J)	0.0038 (J)
9/13/2018	0.0061 (J)	0.0026 (J)
10/2/2019	0.0074 (X)	
10/3/2019		0.0032 (X)
3/25/2020	0.0066 (J)	
3/26/2020		0.0031 (J)
8/26/2020	0.0065 (J)	0.0023 (J)
10/7/2020	0.0063 (J)	0.0023 (J)
3/3/2021	0.0061 (J)	
3/4/2021		0.0031 (J)
9/15/2021	0.0061 (J)	
9/16/2021		0.0025 (J)
Mean	0.005979	0.004757
Std. Dev.	0.001011	0.007283
Upper Lim.	0.006651	0.0034
Lower Lim.	0.005483	0.0023

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	<0.0002					
9/1/2016		<0.0002				
9/6/2016			<0.0002			
9/7/2016				<0.0002	<0.0002	<0.0002
12/7/2016	7E-05 (J)	<0.0002	<0.0002			
12/8/2016				<0.0002	<0.0002	<0.0002
3/21/2017	<0.0002					
3/22/2017		<0.0002	<0.0002	<0.0002	<0.0002	
3/23/2017						<0.0002
7/11/2017	<0.0002		<0.0002			
7/12/2017		<0.0002		<0.0002	<0.0002	<0.0002
10/18/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
10/19/2017						<0.0002
2/20/2018	<0.0002					
2/21/2018		9.7E-05 (J)	6.8E-05 (J)	8.6E-05 (J)	5.7E-05 (J)	4.5E-05 (J)
7/11/2018	<0.0002					
7/12/2018		<0.0002	<0.0002			<0.0002
8/15/2018					<0.0002	
8/16/2018				<0.0002		
9/12/2018	<0.0002					
9/13/2018		<0.0002	<0.0002		<0.0002	
9/14/2018				<0.0002		<0.0002
8/26/2020	0.00015 (J)	<0.0002	<0.0002	<0.0002		0.0001 (J)
8/27/2020					<0.0002	
10/6/2020	<0.0002		<0.0002			
10/7/2020		<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021	<0.0002					<0.0002
3/4/2021		<0.0002	<0.0002	<0.0002	<0.0002	
9/15/2021	<0.0002	<0.0002	<0.0002			
9/16/2021				<0.0002	<0.0002	<0.0002
Mean	0.000185	0.0001914	0.000189	0.0001905	0.0001881	0.0001787
Std. Dev.	3.896E-05	2.973E-05	3.811E-05	3.291E-05	4.128E-05	5.1E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00015	9.7E-05	6.8E-05	8.6E-05	5.7E-05	0.0001

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	<0.0002			
9/1/2016				<0.0002
9/8/2016		<0.0002		
12/7/2016	9E-05 (J)			6E-05 (J)
12/8/2016		<0.0002	<0.0002	
3/21/2017	<0.0002			
3/22/2017		<0.0002		<0.0002
3/23/2017			<0.0002	
7/11/2017	<0.0002	<0.0002		
7/12/2017			<0.0002	<0.0002
10/18/2017	<0.0002	<0.0002		
10/19/2017			<0.0002	<0.0002
2/20/2018	<0.0002			
2/21/2018		5.3E-05 (J)	4.3E-05 (J)	5.3E-05 (J)
7/11/2018	<0.0002			
7/12/2018		<0.0002	<0.0002	<0.0002
9/13/2018	<0.0002	<0.0002		<0.0002
9/14/2018			4.1E-05 (J)	
10/4/2018			<0.0002	
8/26/2020	0.00017 (J)	<0.0002	0.00011 (J)	<0.0002
10/6/2020	<0.0002			
10/7/2020		<0.0002	<0.0002	<0.0002
3/3/2021	<0.0002	<0.0002		
3/4/2021			<0.0002	<0.0002
9/15/2021	<0.0002	<0.0002		
9/16/2021			<0.0002	<0.0002
Mean	0.0001883	0.0001877	0.0001662	0.0001761
Std. Dev.	3.215E-05	4.244E-05	6.346E-05	5.588E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00017	5.3E-05	4.3E-05	6E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-19	PZ-23A
8/31/2016	<0.01					<0.01
9/1/2016		<0.01				
9/6/2016			<0.01			
9/7/2016				<0.01	0.0027 (J)	
12/7/2016	<0.01	<0.01	<0.01			<0.01
12/8/2016				<0.01	0.0022 (J)	
3/21/2017	0.0005 (J)					0.0006 (J)
3/22/2017		0.0004 (J)	0.0004 (J)	0.0004 (J)		
3/23/2017					0.0025 (J)	
7/11/2017	<0.01		<0.01			<0.01
7/12/2017		<0.01		<0.01	0.0022 (J)	
10/18/2017	<0.01	<0.01	<0.01	<0.01		<0.01
10/19/2017					0.0021 (J)	
2/20/2018	<0.01					<0.01
2/21/2018		<0.01	<0.01	<0.01	<0.01	
7/11/2018	<0.01					<0.01
7/12/2018		<0.01	<0.01		0.0022 (J)	
8/16/2018				<0.01		
9/12/2018	<0.01					
9/13/2018		<0.01	<0.01			<0.01
9/14/2018				<0.01	0.0023 (J)	
9/10/2019						<0.01
10/2/2019	<0.01	<0.01	<0.01	<0.01		
10/3/2019					0.0024 (X)	
3/25/2020	<0.01			<0.01		0.0011 (J)
3/26/2020		<0.01	<0.01		0.0021 (J)	
8/26/2020	<0.01	<0.01	<0.01	<0.01	0.002 (J)	<0.01
10/6/2020	<0.01		<0.01			<0.01
10/7/2020		<0.01		<0.01	0.0019 (J)	
3/3/2021	<0.01				0.0021 (J)	<0.01
3/4/2021		<0.01	<0.01	<0.01		
9/15/2021	<0.01	<0.01	<0.01			<0.01
9/16/2021				<0.01	0.0021 (J)	
Mean	0.009321	0.009314	0.009314	0.009314	0.002771	0.008693
Std. Dev.	0.002539	0.002566	0.002566	0.002566	0.002091	0.003324
Upper Lim.	0.01	0.01	0.01	0.01	0.0025	0.01
Lower Lim.	0.0005	0.0004	0.0004	0.0004	0.002	0.0011

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25
9/8/2016	<0.01
12/8/2016	<0.01
3/22/2017	0.001 (J)
7/11/2017	<0.01
10/18/2017	<0.01
2/21/2018	<0.01
7/12/2018	<0.01
9/13/2018	<0.01
10/2/2019	<0.01
3/25/2020	<0.01
8/26/2020	<0.01
10/7/2020	<0.01
3/3/2021	<0.01
9/15/2021	<0.01
Mean	0.009357
Std. Dev.	0.002405
Upper Lim.	0.01
Lower Lim.	0.001

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-19	PZ-23A	PZ-7D
8/31/2016	0.0012 (J)			0.0014 (J)	
9/1/2016		<0.005			<0.005
9/7/2016			<0.005		
12/7/2016	<0.005	<0.005		<0.005	<0.005
12/8/2016			<0.005		
3/21/2017	<0.005			<0.005	
3/22/2017		<0.005			<0.005
3/23/2017			<0.005		
7/11/2017	<0.005			<0.005	
7/12/2017		<0.005	<0.005		<0.005
10/18/2017	<0.005	<0.005		<0.005	
10/19/2017			<0.005		<0.005
2/20/2018	<0.005			<0.005	
2/21/2018		<0.005	<0.005		<0.005
7/11/2018	<0.005			<0.005	
7/12/2018		<0.005	<0.005		<0.005
9/12/2018	<0.005				
9/13/2018		<0.005		<0.005	<0.005
9/14/2018			0.0015 (J)		
9/10/2019				0.0018 (X)	
10/2/2019	0.0015 (X)	<0.005			
10/3/2019			0.0034 (X)		0.0017 (X)
3/25/2020	<0.005			0.003 (J)	
3/26/2020		<0.005	0.0016 (J)		<0.005
8/26/2020	<0.005	0.0018 (J)	0.0031 (J)	0.0026 (J)	0.0018 (J)
10/6/2020	<0.005			0.0027 (J)	
10/7/2020		<0.005	0.0035 (J)		<0.005
3/3/2021	<0.005		0.0033 (J)	0.0025 (J)	
3/4/2021		<0.005			0.0018 (J)
9/15/2021	<0.005	<0.005		0.0024 (J)	
9/16/2021			0.0033 (J)		<0.005
Mean	0.004479	0.004771	0.003907	0.003671	0.004307
Std. Dev.	0.001327	0.0008552	0.00128	0.001429	0.001377
Upper Lim.	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0015	0.0018	0.0031	0.0024	0.0018

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	<0.001					
9/1/2016		<0.001				
9/6/2016			<0.001			
9/7/2016				<0.001	<0.001	<0.001
12/7/2016	<0.001	<0.001	<0.001			
12/8/2016				<0.001	<0.001	0.0003 (J)
3/21/2017	6E-05 (J)					
3/22/2017		<0.001	0.0002 (J)	<0.001	4E-05 (J)	
3/23/2017						0.0003 (J)
7/11/2017	<0.001		0.0002 (J)			
7/12/2017		<0.001		<0.001	<0.001	0.0004 (J)
10/18/2017	<0.001	<0.001	0.0002 (J)	<0.001	5E-05 (J)	
10/19/2017						0.0005 (J)
2/20/2018	<0.001					
2/21/2018		<0.001	0.00018 (J)	<0.001	<0.001	0.00049 (J)
7/11/2018	<0.001					
7/12/2018		<0.001	<0.001			0.00077 (J)
8/15/2018					<0.001	
8/16/2018				<0.001		
9/12/2018	<0.001					
9/13/2018		<0.001	0.00017 (J)		<0.001	
9/14/2018				<0.001		0.00076 (J)
10/2/2019	<0.001	0.00016 (X)	5.3E-05 (X)	0.00016 (X)		
10/3/2019					<0.001	0.00071 (X)
3/25/2020	<0.001			0.0002 (J)		
3/26/2020		0.00014 (J)	<0.001		7.1E-05 (J)	0.00068 (J)
8/26/2020	<0.001	0.00027 (J)	<0.001	0.00025 (J)		0.00056 (J)
8/27/2020					<0.001	
10/6/2020	<0.001		<0.001			
10/7/2020		0.00022 (J)		0.00022 (J)	<0.001	0.0007 (J)
3/3/2021	<0.001					0.00072 (J)
3/4/2021		0.00022 (J)	<0.001	0.00039 (J)	<0.001	
9/15/2021	<0.001	0.0002 (J)	<0.001			
9/16/2021				0.00034 (J)	<0.001	0.00066 (J)
Mean	0.0009329	0.0006579	0.0006431	0.0006829	0.0007972	0.0006107
Std. Dev.	0.0002512	0.000411	0.0004292	0.0003839	0.000403	0.0001967
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.0007501
Lower Lim.	6E-05	0.0002	0.00018	0.00022	7.1E-05	0.0004714

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 3:57 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	<0.001			
9/1/2016				<0.001
9/8/2016		<0.001		
12/7/2016	0.0002 (J)			<0.001
12/8/2016		<0.001	<0.001	
3/21/2017	0.0003 (J)			
3/22/2017		<0.001		0.0002 (J)
3/23/2017			0.0001 (J)	
7/11/2017	0.0002 (J)	<0.001		
7/12/2017			0.0001 (J)	0.0001 (J)
10/18/2017	0.0001 (J)	<0.001		
10/19/2017			0.0001 (J)	0.0001 (J)
2/20/2018	0.00026 (J)			
2/21/2018		<0.001	<0.001	<0.001
7/11/2018	0.00018 (J)			
7/12/2018		<0.001	<0.001	<0.001
9/13/2018	<0.001	<0.001		<0.001
9/14/2018			<0.001	
10/4/2018			<0.001	
9/10/2019	<0.001			
10/2/2019		0.00024 (X)		
10/3/2019			0.00018 (X)	7.8E-05 (X)
3/25/2020	0.00015 (J)	0.00037 (J)		
3/26/2020			0.00015 (J)	8.5E-05 (J)
8/26/2020	0.00016 (J)	0.00037 (J)	<0.001	<0.001
10/6/2020	<0.001			
10/7/2020		0.00027 (J)	<0.001	<0.001
3/3/2021	0.00017 (J)	0.00036 (J)		
3/4/2021			<0.001	<0.001
9/15/2021	<0.001	0.00066 (J)		
9/16/2021			<0.001	<0.001
Mean	0.00048	0.0007336	0.0006879	0.0006831
Std. Dev.	0.0004049	0.0003323	0.0004351	0.0004421
Upper Lim.	0.001	0.001	0.001	0.001
Lower Lim.	0.00016	0.00036	0.0001	8.5E-05