2021 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

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CERTIFICATION STATEMENT

This *2021 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.

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

Date: July 30, 2021

GEORGIA REGISTERED No. 025565 PROFESSIONAL ENGINEER GREGORY J. WRENN

Rhonda N. Quinn, P.G.
Registered Professional Geologist
Georgia Registration #1031

Date: July 30, 2021

SUMMARY

This summary of the 2021 Annual Groundwater Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program from the second half of 2020 through the first half of 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 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, & 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 Georgia Environmental Protection Division (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 well network around each ash pond monitors the groundwater conditions at the Site. The current monitoring well network at Ash Ponds A, 1, and 2 consists of 14 wells (4 upgradient and 10 downgradient wells). Twenty-five piezometers are used for water level measurements only. The monitoring wells were installed from June 2014 through March 2020 and meet federal and state monitoring requirements. The piezometers were installed from

[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*

February 1995 to July 2016. Groundwater monitoring has been initiated in order to meet GA EPD CCR 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. Semi-annual assessment monitoring events were conducted in October 2020 and March 2021 and the Site remains in assessment monitoring.

During the latter half of 2020 and first half 2021 reporting period, three groundwater sampling events were conducted in August and October 2020, and March 2021. The August event was an assessment constituent screening event and samples were analyzed for only the full suite of Appendix IV[2] parameters. The October and March events were routine semi-annual assessment monitoring and samples were analyzed for the full suite of Appendix III[3] parameters and those Appendix IV[4] parameters detected in August. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for October 2020 and March 2021 were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] parameters 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 October 2020 and March 2021 sampling events.

Appendix III Parameter	October 2020
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-17, PZ-18, PZ-23A
Fluoride	None
pH	PZ-18, PZ-19, PZ-23A, PZ-25
Sulfate	PZ-7D, PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33
TDS	PZ-7D, PZ-15, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-33

[2] Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228
[3] Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)
[4] Antimony, barium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

Appendix III Parameter	March 2021
Boron	PZ-7D, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33
Calcium	PZ-7D, PZ-14, PZ-17, PZ-18, PZ-19, PZ-23A
Chloride	PZ-15, PZ-16, PZ-18, PZ-23A
Fluoride	None
pH	PZ-7D, 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-7D, 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 from August 2020 through March 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.

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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 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 annual report documents the activities completed during the second half of 2020 and the first half of 2021 in accordance with Georgia GA EPD Rule 391-3-4-.10(6)(c). Three monitoring events were conducted during this monitoring period: (1) an assessment monitoring constituent screening event was conducted in August 2020 because of statistical exceedances of Appendix III constituents during the monitoring event in March 2020, and (2) the subsequent semi-annual assessment monitoring events were conducted in October 2020 and March 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. 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. Semi-annual assessment monitoring events during this reporting period were conducted in October 2020 and March 2021.

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 (feet/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 – August 2020**, **Figure 4:**

Potentiometric Surface – Upper Bedrock – October 2020, and **Figure 5: Potentiometric Surface – Upper Bedrock – March 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.

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 based on groundwater flow direction. The monitoring well locations are shown in **Figure 2: Monitoring Network Well Location Map**. The current monitoring well network at Ash Ponds A, 1, and 2 consists of 14 wells (4 upgradient wells, and 10 downgradient wells). The upgradient wells used to monitor groundwater quality include wells PZ-1D, PZ-2D, PZ-31, and PZ-32. Downgradient wells used to monitor groundwater quality include wells PZ-7D, PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, and PZ-33 (**Table 1 Summary of Monitoring Network Well Construction**). Twenty-five piezometers 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 during the events during the second half of 2020 and first half of 2021. The groundwater sampling was performed in October 2020 and March 2021 for assessment monitoring in accordance with § 257.93. Samples were collected from each of the 14 wells in the monitoring system shown on **Figure 2**. **Table 3: Groundwater Sampling Events**, presents a summary of CCR groundwater sampling events completed during this monitoring period at Plant Mitchell's Ash Ponds A, 1, and 2.

2.1 Monitoring Well Installation and Maintenance

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

- Visual inspection of well conditions prior to sampling, recording the Site conditions, and performing exterior maintenance to conduct sampling under safe and clean conditions. The August and October 2020 and March 2021 inspections indicated the monitoring wells were in good condition.
- The elevations of the top of well casings (TOC) for the CCR network monitoring wells and piezometers were re-surveyed in June 2020 to confirm the elevations were surveyed to 0.01 feet accuracy. The horizontal locations and the elevation of the ground surface adjacent to the wells were also re-surveyed. The updated elevations and location coordinates are summarized on **Tables 1 and 2.** The boring logs and well construction diagrams of the monitoring wells and piezometers were updated with the new TOC elevations and submitted to GA EPD as the *September 2020 Well Installation Addendum*.
- Piezometer PZ-03R was abandoned on December 18, 2020. The abandonment report is in **Appendix A: Well Abandonments**. The piezometer was abandoned to accommodate the on-going construction activities to remove CCR material and close Ash Pond 2.
- Piezometer PZ-26, part of the water level network for the CCR monitoring program, was abandoned on May 4, 2021. The abandonment report is in **Appendix A: Well Abandonments**. The piezometer was abandoned to accommodate the on-going construction activities to remove CCR material and close Ash Pond 2.
- Monitoring well PZ-23 was abandoned on September 10, 2019 to accommodate construction activities related to removal of the CCR material and closure of Ash Pond 1. The CCR monitoring network well PZ-23 was replaced with new monitoring well PZ-23A on March 10, 2020.

2.2 Assessment Monitoring

Pursuant to § 257.94(e)(1), Georgia Power implemented assessment monitoring based on Statistically significant increases (SSI) 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).

An assessment monitoring constituent screening event was conducted in August 2020 pursuant to § 257.95(b) for the full suite of Appendix IV constituents. Following receipt of the Appendix IV screening results, semi-annual assessment monitoring events were conducted in October 2020 and March 2021. Pursuant to § 257.95(d)(1), groundwater samples collected from the CCR monitoring network wells were analyzed for Appendix III constituents and those Appendix IV constituents detected during the August 2020 assessment monitoring screening event. Data reports for the August and October 2020, and March 2021 monitoring events are included in **Appendix B: 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 were recorded from each well in the network for Plant Mitchell Ash Ponds A, 1, and 2. Groundwater elevations recorded during the August and October 2020, and March 2021 monitoring events are summarized in **Table 4: Summary of Groundwater Elevations**. Groundwater elevation data from the three monitoring events were used to develop potentiometric surface elevation contour maps (**Figure 3: Potentiometric Surface – Upper Bedrock – August 2020, Figure 4: Potentiometric Surface – Upper Bedrock – October 2020, and Figure 5: Potentiometric Surface – Upper Bedrock – March 2021**. The elevations of the top of well casings were re-surveyed in June 2020. The August and October 2020, and March 2021 groundwater elevations were calculated using the top of casing elevations from the June 2020 resurvey data. Groundwater flow in the carbonate upper bedrock **(Figures 3, 4, and 5)** is to the west-southwest. The groundwater flow pattern observed during the August and October 2020, and March 2021 monitoring events is consistent with conditions observed during previous monitoring events.

3.2 Groundwater Gradient and Flow Velocity

The groundwater flow velocity at Plant Mitchell Ash Ponds A, 1, and 2 was calculated using a derivation 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 0.01 to 0.07 feet/day (4.30 to 26.54 feet/year).

3.3 Groundwater Sampling

Groundwater samples were collected for the August and October 2020, and March 2021 monitoring events in accordance with § 257.93(a). Each of the monitoring wells at the Site is equipped with a dedicated QED bladder pump. The 14 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 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 ± 3 percent.
- 10 percent for DO > 0.5 milligrams per liter (mg/L). No criterion applies if DO < 0.5 mg/L.
- Turbidity measurements less than 5 Nephelometric Turbidity Units.

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 events are provided in **Appendix B.**

3.4 Laboratory Analyses

Arsenic, beryllium, and cadmium were not detected in the groundwater samples collected during the August 2020 assessment constituent screening event and were, therefore, not analyzed during the subsequent semi-annual events in accordance with § 257.95(d)(1). Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in **Appendix B**.

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.

3.5 Groundwater Analytical Results

Table 6: Analytical Data Summary Appendix III - October 2020 and March 2021, summarizes the analytical data for the Appendix III constituents for the semi-annual monitoring events. The complete laboratory and field data sheets are included in **Appendix B**.

Table 7: Analytical Data Summary Appendix IV – August, October 2020, and March 2021 summarizes the analytical data for the August 2020 Appendix IV assessment constituent screening event and the detected Appendix IV constituents for the October 2020 and March 2021 semi-annual monitoring events. The complete laboratory and field data sheets are included in **Appendix B**.

3.6 Quality Assurance & Quality Control

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 B**.

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 total radium in one October 2020 sample set was at 20 percent. 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(fand following the 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 October 2020 and March 2021 semi-annual assessment monitoring events 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 October 2020 and March 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 parameters 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 events conducted in October 2020 and March 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 parameters. 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 October 2020 and March 2021 monitoring events 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: Statistical Method Summary.** 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 limits 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, fluoride, 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 October 2020 and March 2021 sample events. **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 C: Statistical Analyses**. A table of identified SSIs for the October 2020 and March 2021 Appendix III data can be found in **Appendix C**. Based on review of the full Appendix III statistical analysis discussion presented in **Appendix C**, groundwater conditions have not returned to background concentrations and assessment monitoring should continue to be conducted.

4.3 Statistical Analyses Results- Appendix IV

Appendix C: 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 October 2020 and March 2021 sampling events.

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 October 2020 and March 2021 semi-annual events. No SSLs were identified for the Appendix IV constituents during the October 2020 and March 2021 events. Pursuant to § 257.95, Georgia Power will continue assessment monitoring at Plant Mitchell Ash Ponds A, 1, and 2.

6.0 CONCLUSIONS & FUTURE ACTIONS

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 September 2021. The September 2021 semi-annual assessment monitoring event will be a combined event to meet the requirements of GA EPD Rule 391-3-4-.10(6) and 40 C.F.R. §257.95(b) and (d)(1) and will include sampling and analysis of all Appendix III and IV constituents.

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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)] (Prior to June 2020 Resurvey)	Ground Surface Elevation (feet NAVD88)[(2)] (June 2020 Resurvey)	Top of Casing Elevation (feet NAVD88)[(2)] (Prior to June 2020 Resurvey)	Top of Casing Elevation (feet NAVD88)[(2)] (June 2020 Resurvey)	Top of Screen Elevation (feet NAVD88)[(4)]	Bottom of Screen Elevation (feet NAVD88)[(4)]	Total Well Depth Measured March 2021 (feet below TOC)	Total Well Depth on Construction Log (feet below land surface)	Groundwater Zone Screened	Location
PZ-1D	6/11/2014	526353.9	2307362.8	192.7	193.44	196.21	196.44	125.8	115.8	81.7	78.0	Bedrock	Upgradient
PZ-2D	6/10/2014	526067.3	2308155.4	175.1	175.64	178.39	178.51	108.0	98.0	81.0	78.0	Bedrock	Upgradient
PZ-31	10/13/2016	526996.3	2306857.6	180.1	180.32	182.86	182.96	133.3	123.3	61.6	57.0	Bedrock	Upgradient
PZ-32	10/13/2016	526078.7	2307723.7	178.0	178.19	180.72	180.75	126.2	116.2	65.3	62.0	Bedrock	Upgradient
PZ-7D	6/3/2014	521425.1	2305995.3	170.0	170.28	173.13	173.08	123.9	113.9	60.4	57.0	Bedrock	Downgradient
PZ-14	7/25/2016	521473.1	2306804.8	180.4	180.85	183.62	183.46	140.9	130.9	53.2	50.0	Bedrock	Downgradient
PZ-15	7/23/2016	521600.2	2305357.3	166.9	167.38	170.10	170.37	97.4	87.4	83.2	80.0	Bedrock	Downgradient
PZ-16	7/25/2016	522125.0	2305359.9	170.7	171.21	173.71	173.92	131.2	121.2	53.2	50.0	Bedrock	Downgradient
PZ-17	7/22/2016	522587.9	2305886.7	169.5	170.12	172.66	172.91	120.1	110.1	62.7	60.0	Bedrock	Downgradient
PZ-18	7/23/2016	523145.7	2306142.3	166.6	167.34	169.78	170.11	117.3	107.3	63.2	60.0	Bedrock	Downgradient
PZ-19	7/13/2016	523582.1	2306153.6	169.1	169.40	171.96	172.05	120.4	110.4	62.6	59.0	Bedrock	Downgradient
PZ-23A	3/10/2020	523831.5	2307743.4	188.9	189.06	191.91	191.85	134.6	124.6	67.3	64.5	Bedrock	Downgradient
PZ-25	7/20/2016	524492.6	2306152.0	167.9	168.24	171.12	171.14	118.2	108.2	63.2	60.0	Bedrock	Downgradient
PZ-33	10/2/2016	522212.6	2307233.9	186.9	187.08	189.52	189.61	126.7	116.7	73.6	70.4	Bedrock	Downgradient

Notes:
(1) Horizontal locations referenced to the North American Datum of 1983 (NAD 83) (2011).
(2) Vertical elevations are in feet referenced to North American Vertical Datum of 1988 (NAVD88)
(3) TOC indicates top of casing.
(4) Top and bottom screen elevations based on June 2020 resurveyed ground surface elevations.
(5) 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)(2) (Prior to June 2020 Resurvey)	Ground Surface Elevation (feet NAVD88)(2) (June 2020 Resurvey)	Top of Casing Elevation (feet NAVD88)(2) (Prior to June 2020 Resurvey)	Top of Casing Elevation (feet NAVD88)(2) (June 2020 Resurvey)	Top of Screen Elevation (feet NAVD88)(4)	Bottom of Screen Elevation (feet NAVD88)(4)	Total Well Depth Measured March 2021 (feet below TOC)	Total Well Depth on Construction Log (feet below land surface)	Lithology Screened
PZ-01R(5)	2/10/2016	not surveyed(5)		188.0	not surveyed(5)	191.87	not surveyed(5)	132.0	122.0	71.5	66.7	Overburden (Clay)/Bedrock
PZ-02R(5)	2/3/2016	not surveyed(5)		188.5	not surveyed(5)	191.66	not surveyed(5)	131.6	121.6	70.9	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	49.9*	54.4	Overburden (Clay)
PZ-03R(5) (6)	2/9/2016	not surveyed(5)		189.7	not surveyed(5)	192.35	not surveyed(5)	143.5	133.5	61.0	56.4	Overburden (Clay)/Bedrock
PZ-3D	5/28/2014	525373.2	2307918.1	187.7	188.08	190.82	190.98	110.5	100.5	91.2	88.0	Bedrock
PZ-4D	5/29/2014	524198.2	2308009.5	187.7	188.25	190.84	191.10	142.7	132.7	58.4	56.0	Bedrock
PZ-6S	6/13/2014	522254.0	2307207.5	186.2	186.52	189.34	189.47	148.9	138.9	42.5*	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	80.8	77.0	Bedrock
PZ-9D	6/4/2014	521770.9	2305127.5	162.6	163.18	166.08	166.16	126.6	116.6	49.9	47.0	Bedrock
PZ-10S	6/3/2014	522465.8	2305401.6	172.3	172.64	175.51	175.63	137.0	127.0	48.3	46.0	Bedrock
PZ-11S	6/12/2014	523112.9	2305532.1	188.2	188.71	191.57	191.69	141.1	131.1	61.4	58.0	Bedrock
PZ-12S	6/4/2014	523794.9	2305676.8	169.8	170.93	173.19	173.92	133.3	123.3	51.6	48.0	Bedrock
PZ-20	7/14/2016	524025.0	2306152.6	170.4	170.62	173.43	173.44	121.1	111.1	63.0	60.0	Bedrock
PZ-21	7/29/2016	524639.5	2306932.0	176.7	177.08	179.83	179.84	117.1	107.1	72.6	70.0	Bedrock
PZ-22	7/28/2016	524622.4	2307749.0	184.5	184.76	187.68	187.69	134.8	124.8	62.8	60.0	Bedrock
PZ-24A	3/6/2020	523151.8	2307445.9	192.2	192.25	195.07	194.97	142.3	132.3	63.3	61.0	Bedrock
PZ-26	10/1/2016	521463.1	2305040.7	163.7	163.94	166.60	166.70	125.4	115.4	52.3	48.5	Bedrock
PZ-27	10/4/2016	522440.4	2305235.1	161.5	161.88	164.40	164.58	123.6	113.6	52.2	48.3	Bedrock
PZ-28	10/13/2016	522953.9	2305347.3	163.0	163.49	165.67	165.96	126.5	116.5	50.8	47.0	Bedrock
PZ-29	10/4/2016	523857.8	2305593.0	170.0	170.42	172.95	173.18	123.9	113.9	60.5	56.5	Bedrock
MW-102	2/22/1995	524508.2	2306153.6	168.0	168.10	170.75	170.93	132.0	122.8	49.4	45.9	Bedrock
MW-108	2/21/1995	521561.7	2306874.5	183.0	182.75	185.59	185.47	145.1	136.0	54.4	47.4	Bedrock
MW-111	2/23/1995	521618.2	2305308.8	165.3	165.28	168.00	168.06	127.8	118.8	48.9	47.1	Bedrock
MW-113	2/21/1995	522357.4	2305578.4	172.1	171.88	174.76	174.61	129.6	120.1	52.0	52.4	Bedrock
MW-115	2/21/1995	522837.4	2306080.2	166.2	166.23	168.97	169.05	88.6	79.5	90.2	87.3	Bedrock
MW-116	2/23/1995	523649.9	2306082.5	169.0	168.93	171.86	171.69	100.7	94.3	79.1	75.0	Bedrock

Notes:
(1) Horizontal locations referenced to the North American Datum of 1983 (NAD 83) (2011).
(2) Vertical elevations are feet referenced to North American Vertical Datum of 1988 (NAVD88)
(3) TOC indicates top of casing.
(4) Top and bottom screen elevations based on June 2020 resurveyed ground surface elevations.
(5) Wells PZ-01R, PZ-02R, PZ-03R were not accessible due to construction activities and were not resurveyed in June 2020.
(6) Piezometers PZ-03R and PZ-26 were abandoned on 12/18/2020 and 5/4/2021, respectively.
* total depth to top of pump or depth of monitoring instruments

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

Well ID	Hydraulic Location	Summary of Sampling Events: August 25 - 27, 2020	Summary of Sampling Events: October 6 - 7, 2020	Summary of Sampling Events: March 3 - 8, 2021	Status of Monitoring Well
Purpose of Sampling Event		Assessment Constitutent Screening	Assessment	Assessment	
ASH PONDS MONITORING WELL NETWORK					
PZ-1D	Upgradient	Screening	A03	A04	Assessment Monitoring
PZ-2D	Upgradient	Screening	A03	A04	Assessment Monitoring
PZ-31	Upgradient	Screening	A03	A04	Assessment Monitoring
PZ-32	Upgradient	Screening	A03	A04	Assessment Monitoring
PZ-7D	Downgradient	Screening	A03	A04	Assessment Monitoring
PZ-14	Downgradient	Screening	A03	A04	Assessment Monitoring
PZ-15	Downgradient	Screening	A03	A04	Assessment Monitoring
PZ-16	Downgradient	Screening	A03	A04	Assessment Monitoring
PZ-17	Downgradient	Screening	A03	A04	Assessment Monitoring
PZ-18	Downgradient	Screening	A03	A04	Assessment Monitoring
PZ-19	Downgradient	Screening	A03	A04	Assessment Monitoring
PZ-23A	Downgradient	Screening	A03	A04	Assessment Monitoring
PZ-25	Downgradient	Screening	A03	A04	Assessment Monitoring
PZ-33	Downgradient	Screening	A03	A04	Assessment Monitoring

Notes:
AXX - Assessment Event Number
Screening - Annual Assessment Constituent Screening Event for Appendix IV constituents
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 Resurvey)	Top of Casing Elevation (feet NAVD88) (June 2020 Resurvey Elevations)	Groundwater Elevation (feet NAVD88)	Groundwater Elevation (feet NAVD88)	Groundwater Elevation (feet NAVD88)
			(Event #13)	(Event #14)	(Event #15)
			8/25/2020	10/5/2020	3/2/2021
MW-102	170.75	170.93	140.62	141.43	146.39
MW-108	185.59	185.47	139.12	141.56	146.76
MW-111	168.00	168.06	139.83	139.88	144.42
MW-113	174.76	174.61	138.95	141.24	147.18
MW-115	168.97	169.05	140.13	137.77	145.00
MW-116	171.86	171.69	139.56	140.82	145.59
PZ-1D	196.21	196.44	143.46	145.98	155.27
PZ-01R	191.87	Not surveyed	140.70	141.69	146.08
PZ-2D	178.39	178.51	142.41	144.66	155.01
PZ-02R	191.66	Not surveyed	139.97	141.62	146.18
PZ-2S	178.60	178.61	142.40	144.71	155.05
PZ-3D	190.82	190.98	142.09	144.32	152.72
PZ-03R	192.35	Not surveyed	139.32	140.99	Abandoned
PZ-4D	190.84	191.10	140.69	143.63	149.76
PZ-6S	189.34	189.47	170.51	173.30	178.75
PZ-7D	173.13	173.08	139.80	140.80	145.69
PZ-8D	170.27	170.35	140.03	140.13	144.53
PZ-9D	166.08	166.16	139.49	140.15	144.46
PZ-10S	175.51	175.63	139.02	141.30	146.06
PZ-11S	191.57	191.69	139.08	140.91	145.03
PZ-12S	173.19	173.92	139.87	140.34	144.95
PZ-14	183.62	183.46	139.23	141.46	146.57
PZ-15	170.10	170.37	139.85	140.20	144.21
PZ-16	173.71	173.92	138.90	140.94	145.37
PZ-17	172.66	172.91	140.84	141.39	145.89
PZ-18	169.78	170.11	140.07	141.33	145.70
PZ-19	171.96	172.05	139.49	141.13	145.91
PZ-20	173.43	173.44	139.70	141.09	145.98
PZ-21	179.83	179.84	140.75	142.64	148.01
PZ-22	187.68	187.69	140.91	143.63	149.88
PZ-23A	191.91	191.85	141.58	143.62	149.16
PZ-24A	195.07	194.97	140.23	142.55	147.80
PZ-25	171.12	171.14	140.57	141.40	146.44
PZ-26	166.60	166.70	139.67	140.02	144.40
PZ-27	164.40	164.58	138.90	140.77	145.68
PZ-28	165.67	165.96	138.98	140.99	145.28
PZ-29	172.95	173.18	140.14	140.17	144.95
PZ-31	182.86	182.96	143.13	145.81	154.07
PZ-32	180.72	180.75	142.27	144.92	155.76
PZ-33	189.52	189.61	139.98	141.94	147.09

Notes:
Vertical elevations are in feet referenced to North American Vertical Datum of 1988 (NAVD88)
TOC - Top of Casing
Groundwater elevations for Events #13 through #15 calculated using TOC elevations from the June 2020 re-survey.
Wells PZ-01R, PZ-02R, PZ-03R could not be surveyed during the June 2020 re-survey because the wells were inaccessible due to construction activities near the wells.

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)
August 2020	Limestone	PZ-1D to PZ-21	143.46	140.75	2.71	1740	0.002	3.04	0.2	0.02	8.64
August 2020	Limestone	PZ-23A to PZ-19	141.58	139.49	2.09	1620	0.001	3.04	0.2	0.02	7.16
October 2020	Limestone	PZ-1D to PZ-102	145.98	141.43	4.55	2190	0.002	3.04	0.2	0.03	11.53
October 2020	Limestone	PZ-23A to PZ-19	143.62	141.13	2.49	1620	0.002	3.04	0.2	0.02	8.53
October 2020	Limestone	PZ-33 to PZ-7D	141.94	140.80	1.14	1470	0.001	3.04	0.2	0.01	4.30
March 2021	Limestone	PZ-32 to PZ-21	155.76	148.01	7.75	1620	0.005	3.04	0.2	0.07	26.54
March 2021	Limestone	PZ-23A to PZ-18	149.16	145.70	3.46	1740	0.002	3.04	0.2	0.03	11.03

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 - OCTOBER 2020 AND MARCH 2021

Plant Mitchell

Ash Ponds A, 1, and 2

Putney, Georgia

Well Name	Sample Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS
PZ-1D	10/6/2020	0.015 (J)	50.5	3.0	< 0.050	7.35	2.4	153
PZ-1D	3/3/2021	0.010 (J)	54.7	2.8	<0.050	7.56	2.2	134
PZ-2D	10/6/2020	0.018 (J)	22.7	2.3	0.073 (J)	8.72	3.1	81.0
PZ-2D	3/8/2021	0.013 (J)	41.7	2.4	<0.050	7.77	2.7	126
PZ-7D	10/7/2020	0.20	109	3.9	< 0.050	6.98	48.9	334
PZ-7D	3/4/2021	0.20	122	4.0	<0.050	6.95	49.7	335
PZ-14	10/6/2020	0.026 (J)	111	4.4	< 0.050	7.01	11.0	241
PZ-14	3/3/2021	0.028 (J)	114	4.2	<0.050	6.99	8.8	258
PZ-15	10/7/2020	0.19	93.5	6.6	< 0.050	7.11	80.7	336
PZ-15	3/4/2021	0.16	107	6.3	<0.050	7.09	74.1	300
PZ-16	10/6/2020	0.19	84.0	6.4	< 0.050	7.24	42.4	261
PZ-16	3/4/2021	0.20	90.9	5.9	<0.050	7.34	38.9	264
PZ-17	10/7/2020	0.30	112	5.7	< 0.050	7.04	89.1	392
PZ-17	3/4/2021	0.22	113	4.2	<0.050	7.09	66.8	325
PZ-18	10/7/2020	0.39	129	5.0	< 0.050	6.91	87.3	425
PZ-18	3/4/2021	0.37	138	5.1	<0.050	6.91	88.6	427
PZ-19	10/7/2020	0.52	144	4.5	0.064 (J)	6.78	83.3	492
PZ-19	3/3/2021	0.50	142	4.0	0.058 (J)	6.78	80.8	452
PZ-23A	10/6/2020	0.16	144	7.0	0.052 (J)	6.78	71.2	462
PZ-23A	3/3/2021	0.16	154	4.7	<0.050	6.79	66.0	444
PZ-25	10/7/2020	0.18	84.2	1.8	0.13	6.95	38.1	280
PZ-25	3/3/2021	0.20	96.8	1.6	0.12	7.04	39.2	267
PZ-31	10/6/2020	0.011 (J)	98.8	3.4	< 0.050	7.01	0.98 (J)	254
PZ-31	3/3/2021	0.0087 (J)	104	3.1	<0.050	7.14	0.60 (J)	264
PZ-32	10/6/2020	0.015 (J)	62.8	2.3	< 0.050	7.27	1.9	169
PZ-32	3/3/2021	0.022 (J)	64.8	2.2	<0.050	7.41	2.0	166
PZ-33	10/7/2020	0.35	94.7	2.0	< 0.050	7.04	54.6	337
PZ-33	3/4/2021	0.34	106	1.8	<0.050	7.22	49.3	283
FD-01 PZ-19	10/7/2020	0.55	138	4.5	0.062 (J)	6.78	84.0	496
FD-02 PZ-25	10/7/2020	0.19	85.7	1.8	0.14	6.95	38.3	288
Dup-01 PZ-25	3/3/2021	0.20	90.9	1.6	0.12	7.04	39.2	256
Dup-02 PZ-23A	3/3/2021	0.17	153	4.7	<0.050	6.79	66.5	434

Notes:

1. Results for metals and anions are reported in milligrams per liter (mg/L). Results for pH are reported in standard units.
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 - AUGUST, OCTOBER 2020 AND MARCH 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	8/25/2020	0.0012 (J)	< 0.00078	0.014	< 0.000046	< 0.00012	0.0030 (J)	< 0.00038	< 0.050	0.000065 (J)	< 0.00081	0.000099 (J)	0.0010 (J)	0.777 (U)	< 0.0016	< 0.00014
PZ-1D	10/6/2020	0.0021 (J)	NA	0.015	NA	NA	0.0021 (J)	< 0.00038	< 0.050	0.000066 (J)	< 0.00081	< 0.000078	0.00090 (J)	0.996 (U)	< 0.0016	< 0.00014
PZ-1D	3/3/2021	0.00093 (J)	NA	0.015	NA	NA	0.0018 (J)	<0.00038	<0.050	0.000055 (J)	<0.00081	<0.000078	0.00076 (J)	0.915 (U)	<0.0016	<0.00014
PZ-2D	8/26/2020	0.00080 (J)	< 0.00078	0.0051 (J)	< 0.000046	< 0.00012	0.0040 (J)	< 0.00038	0.057 (J)	< 0.000036	0.0015 (J)	< 0.000078	< 0.00069	0.605 (U)	< 0.0016	< 0.00014
PZ-2D	10/6/2020	0.0013 (J)	NA	0.0039 (J)	NA	NA	0.0065 (J)	< 0.00038	0.073 (J)	< 0.000036	0.00099 (J)	< 0.000078	0.00069 (J)	0.929 (U)	< 0.0016	< 0.00014
PZ-2D	3/8/2021	0.00030 (J)	NA	0.0065	NA	NA	0.0028 (J)	<0.00038	<0.050	0.000062 (J)	0.0019 (J)	<0.000078	<0.00069	0.475 (U)	<0.0016	<0.00014
PZ-7D	8/26/2020	0.00031 (J)	< 0.00078	0.0070 (J)	< 0.000046	< 0.00012	0.0011 (J)	< 0.00038	< 0.050	< 0.000036	0.0023 (J)	< 0.000078	< 0.00069	0.572 (U)	0.0018 (J)	< 0.00014
PZ-7D	10/7/2020	< 0.00028	NA	0.0061 (J)	NA	NA	0.0014 (J)	< 0.00038	< 0.050	< 0.000036	0.0023 (J)	< 0.000078	< 0.00069	0.232 (U)	< 0.0016	< 0.00014
PZ-7D	3/4/2021	<0.00028	NA	0.0061	NA	NA	0.0024 (J)	<0.00038	<0.050	0.000041 (J)	0.0031 (J)	<0.000078	<0.00069	0.529 (U)	0.0018 (J)	<0.00014
PZ-14	8/26/2020	< 0.00028	< 0.00078	0.016	< 0.000046	< 0.00012	0.0011 (J)	< 0.00038	< 0.050	< 0.000036	< 0.00081	0.00015 (J)	< 0.00069	0.115 (U)	< 0.0016	< 0.00014
PZ-14	10/6/2020	< 0.00028	NA	0.016	NA	NA	0.00098 (J)	< 0.00038	< 0.050	< 0.000036	< 0.00081	< 0.000078	< 0.00069	0.265 (U)	< 0.0016	< 0.00014
PZ-14	3/3/2021	<0.00028	NA	0.017	NA	NA	0.00097 (J)	<0.00038	<0.050	<0.000036	<0.00081	<0.000078	<0.00069	0.328 (U)	<0.0016	<0.00014
PZ-15	8/26/2020	0.00062 (J)	< 0.00078	0.053	< 0.000046	< 0.00012	< 0.00055	< 0.00038	< 0.050	< 0.000036	0.0013 (J)	< 0.000078	< 0.00069	0.681 (U)	0.0018 (J)	0.00027 (J)
PZ-15	10/7/2020	< 0.00028	NA	0.049	NA	NA	< 0.00055	< 0.00038	< 0.050	< 0.000036	0.0013 (J)	< 0.000078	< 0.00069	1.22 (U)	< 0.0016	0.00022 (J)
PZ-15	3/4/2021	<0.00028	NA	0.047	NA	NA	<0.00055	<0.00038	<0.050	<0.000036	0.0014 (J)	<0.000078	<0.00069	0.674 (U)	<0.0016	0.00022 (J)
PZ-16	8/26/2020	0.00037 (J)	< 0.00078	0.036	< 0.000046	< 0.00012	0.00087 (J)	< 0.00038	< 0.050	< 0.000036	< 0.00081	< 0.000078	< 0.00069	0.499 (U)	< 0.0016	< 0.00014
PZ-16	10/6/2020	< 0.00028	NA	0.034	NA	NA	0.0011 (J)	< 0.00038	< 0.050	< 0.000036	< 0.00081	< 0.000078	< 0.00069	1.12 (U)	< 0.0016	< 0.00014
PZ-16	3/4/2021	<0.00028	NA	0.035	NA	NA	0.0012 (J)	<0.00038	<0.050	<0.000036	<0.00081	<0.000078	<0.00069	0.404 (U)	<0.0016	<0.00014
PZ-17	8/26/2020	0.00061 (J)	< 0.00078	0.077	< 0.000046	< 0.00012	< 0.00055	< 0.00038	< 0.050	< 0.000036	0.0028 (J)	< 0.000078	< 0.00069	1.62	< 0.0016	0.00025 (J)
PZ-17	10/7/2020	< 0.00028	NA	0.074	NA	NA	< 0.00055	< 0.00038	< 0.050	< 0.000036	0.0029 (J)	< 0.000078	< 0.00069	0.432 (U)	< 0.0016	0.00022 (J)
PZ-17	3/4/2021	0.00055 (J)	NA	0.071	NA	NA	<0.00055	<0.00038	<0.050	<0.000036	0.0020 (J)	<0.000078	<0.00069	0.734 (U)	<0.0016	0.00039 (J)
PZ-18	8/27/2020	< 0.00028	< 0.00078	0.023	< 0.000046	< 0.00012	< 0.00055	< 0.00038	< 0.050	< 0.000036	0.0025 (J)	< 0.000078	< 0.00069	0.0939 (U)	< 0.0016	< 0.00014
PZ-18	10/7/2020	0.0014 (J)	NA	0.023	NA	NA	< 0.00055	< 0.00038	< 0.050	0.000042 (J)	0.0030 (J)	< 0.000078	< 0.00069	0.365 (U)	< 0.0016	< 0.00014
PZ-18	3/4/2021	<0.00028	NA	0.023	NA	NA	<0.00055	<0.00038	<0.050	<0.000036	0.0029 (J)	<0.000078	<0.00069	0.498 (U)	<0.0016	<0.00014
PZ-19	8/26/2020	< 0.00028	< 0.00078	0.049	< 0.000046	< 0.00012	< 0.00055	< 0.00038	0.062 (J)	< 0.000036	0.011 (J)	0.00010 (J)	0.0020 (J)	0.703 (U)	0.0031 (J)	0.00056 (J)
PZ-19	10/7/2020	< 0.00028	NA	0.054	NA	NA	< 0.00055	< 0.00038	0.064 (J)	0.000042 (J)	0.013 (J)	< 0.000078	0.0019 (J)	0.893	0.0035 (J)	0.00070 (J)
PZ-19	3/3/2021	<0.00028	NA	0.055	NA	NA	<0.00055	<0.00038	0.058 (J)	<0.000036	0.015 (J)	<0.000078	0.0021 (J)	0.469 (U)	0.0033 (J)	0.00072 (J)
PZ-23A	8/26/2020	0.00038 (J)	< 0.00078	0.039	< 0.000046	< 0.00012	0.0014 (J)	0.00058 (J)	0.057 (J)	< 0.000036	0.0011 (J)	0.00017 (J)	< 0.00069	0.774 (U)	0.0026 (J)	0.00016 (J)
PZ-23A	10/6/2020	< 0.00028	NA	0.037	NA	NA	0.0015 (J)	0.00067 (J)	0.052 (J)	0.000047 (J)	0.00097 (J)	< 0.000078	< 0.00069	1.24 (U)	0.0027 (J)	< 0.00014
PZ-23A	3/3/2021	0.0017 (J)	NA	0.039	NA	NA	0.0015 (J)	0.00049 (J)	<0.050	0.000058 (J)	0.0010 (J)	<0.000078	<0.00069	1.01 (U)	0.0025 (J)	0.00017 (J)
PZ-25	8/26/2020	< 0.00028	< 0.00078	0.10	< 0.000046	< 0.00012	< 0.00055	0.0016 (J)	0.14	< 0.000036	0.0065 (J)	< 0.000078	< 0.00069	0.950 (U)	< 0.0016	0.00037 (J)
PZ-25	10/7/2020	< 0.00028	NA	0.11	NA	NA	< 0.00055	0.0014 (J)	0.13	< 0.000036	0.0063 (J)	< 0.000078	< 0.00069	1.01 (U)	< 0.0016	0.00027 (J)
PZ-25	3/3/2021	<0.00028	NA	0.12	NA	NA	<0.00055	0.0016 (J)	0.12	<0.000036	0.0061 (J)	<0.000078	<0.00069	0.545 (U)	<0.0016	0.00036 (J)

TABLE 7
ANALYTICAL DATA SUMMARY APPENDIX IV - AUGUST, OCTOBER 2020 AND MARCH 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-31	8/25/2020	< 0.00028	< 0.00078	0.0071 (J)	< 0.000046	< 0.00012	0.0011 (J)	< 0.00038	< 0.050	< 0.000036	< 0.00081	0.00010 (J)	< 0.00069	0.405 (U)	< 0.0016	< 0.00014
PZ-31	10/6/2020	0.00045 (J)	NA	0.0075 (J)	NA	NA	0.0013 (J)	< 0.00038	< 0.050	< 0.000036	< 0.00081	< 0.000078	< 0.00069	0.276 (U)	< 0.0016	< 0.00014
PZ-31	3/3/2021	<0.00028	NA	0.0069	NA	NA	0.0015 (J)	<0.00038	<0.050	<0.000036	<0.00081	<0.000078	<0.00069	0.907 (U)	<0.0016	<0.00014
PZ-32	8/25/2020	< 0.00028	< 0.00078	0.015	< 0.000046	< 0.00012	0.0010 (J)	< 0.00038	< 0.050	0.000063 (J)	< 0.00081	< 0.000078	< 0.00069	0.340 (U)	< 0.0016	< 0.00014
PZ-32	10/6/2020	< 0.00028	NA	0.015	NA	NA	0.00072 (J)	< 0.00038	< 0.050	< 0.000036	< 0.00081	< 0.000078	< 0.00069	0.371 (U)	< 0.0016	< 0.00014
PZ-32	3/3/2021	<0.00028	NA	0.013	NA	NA	<0.00055	<0.00038	<0.050	<0.000036	<0.00081	<0.000078	<0.00069	0.836 (U)	<0.0016	<0.00014
PZ-33	8/26/2020	< 0.00028	< 0.00078	0.051	< 0.000046	< 0.00012	< 0.00055	< 0.00038	< 0.050	< 0.000036	< 0.00081	0.00011 (J)	< 0.00069	0.782 (U)	< 0.0016	< 0.00014
PZ-33	10/7/2020	0.00037 (J)	NA	0.048	NA	NA	< 0.00055	< 0.00038	< 0.050	< 0.000036	< 0.00081	< 0.000078	< 0.00069	0.442 (U)	< 0.0016	< 0.00014
PZ-33	3/4/2021	<0.00028	NA	0.047	NA	NA	<0.00055	<0.00038	<0.050	<0.000036	<0.00081	<0.000078	<0.00069	1.03 (U)	<0.0016	<0.00014
Dup-01 PZ-25	8/26/2020	< 0.00028	< 0.00078	0.10	< 0.000046	< 0.00012	< 0.00055	0.0015 (J)	0.14	< 0.000036	0.0062 (J)	< 0.000078	< 0.00069	1.13 (U)	< 0.0016	0.00036 (J)
Dup-02 PZ-23A	8/26/2020	0.0016 (J)	< 0.00078	0.037	< 0.000046	< 0.00012	0.0013 (J)	0.00055 (J)	< 0.050	< 0.000036	0.0011 (J)	0.00017 (J)	< 0.00069	0.552 (U)	0.0033 (J)	< 0.00014
FD-01 PZ-19	10/7/2020	< 0.00028	NA	0.053	NA	NA	< 0.00055	< 0.00038	0.062 (J)	< 0.000036	0.014 (J)	< 0.000078	0.0019 (J)	1.09	0.0029 (J)	0.00068 (J)
FD-02 PZ-25	10/7/2020	< 0.00028	NA	0.11	NA	NA	< 0.00055	0.0014 (J)	0.14	< 0.000036	0.0062 (J)	< 0.000078	< 0.00069	0.960 (U)	< 0.0016	0.00027 (J)
Dup-01 PZ-25	3/3/2021	<0.00028	NA	0.12	NA	NA	<0.00055	0.0016 (J)	0.12	<0.000036	0.0061 (J)	<0.000078	<0.00069	0.292 (U)	<0.0016	0.00036 (J)
Dup-02 PZ-23A	3/3/2021	0.00057 (J)	NA	0.039	NA	NA	0.0015 (J)	0.00050 (J)	<0.050	0.00012 (J)	0.0011 (J)	<0.000078	<0.00069	0.624 (U)	0.0024 (J)	0.00015 (J)

Notes:
1. Results for metals are reported in milligrams per liter (mg/L).
2. NA indicates a constituent was not analyzed in October and March semi-annual events because it was not detected during the August 2020 assessment constituent screening.
3. < indicates the constituent was not detected above the analytical method detection limit.
4. (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.
5. Radium units are in picocuries per liter (pci/L)
6. U indicates the substance 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

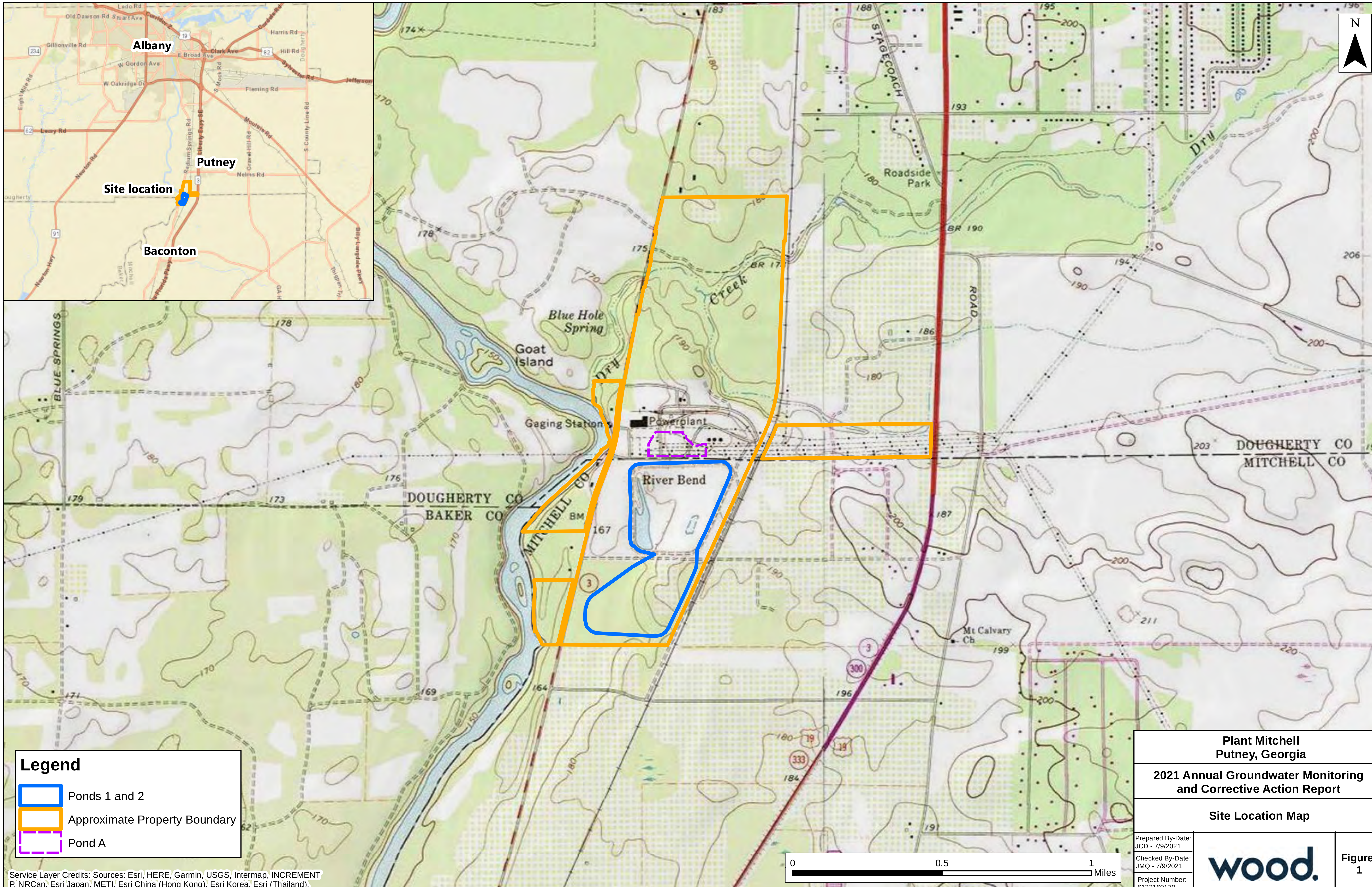
Statistical Methodology	Data Screening on Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available.
	Statistical Limits	Interwell statistical limits will be applied on a parameter basis, depending on the appropriateness of the method as determined by the Analysis 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.

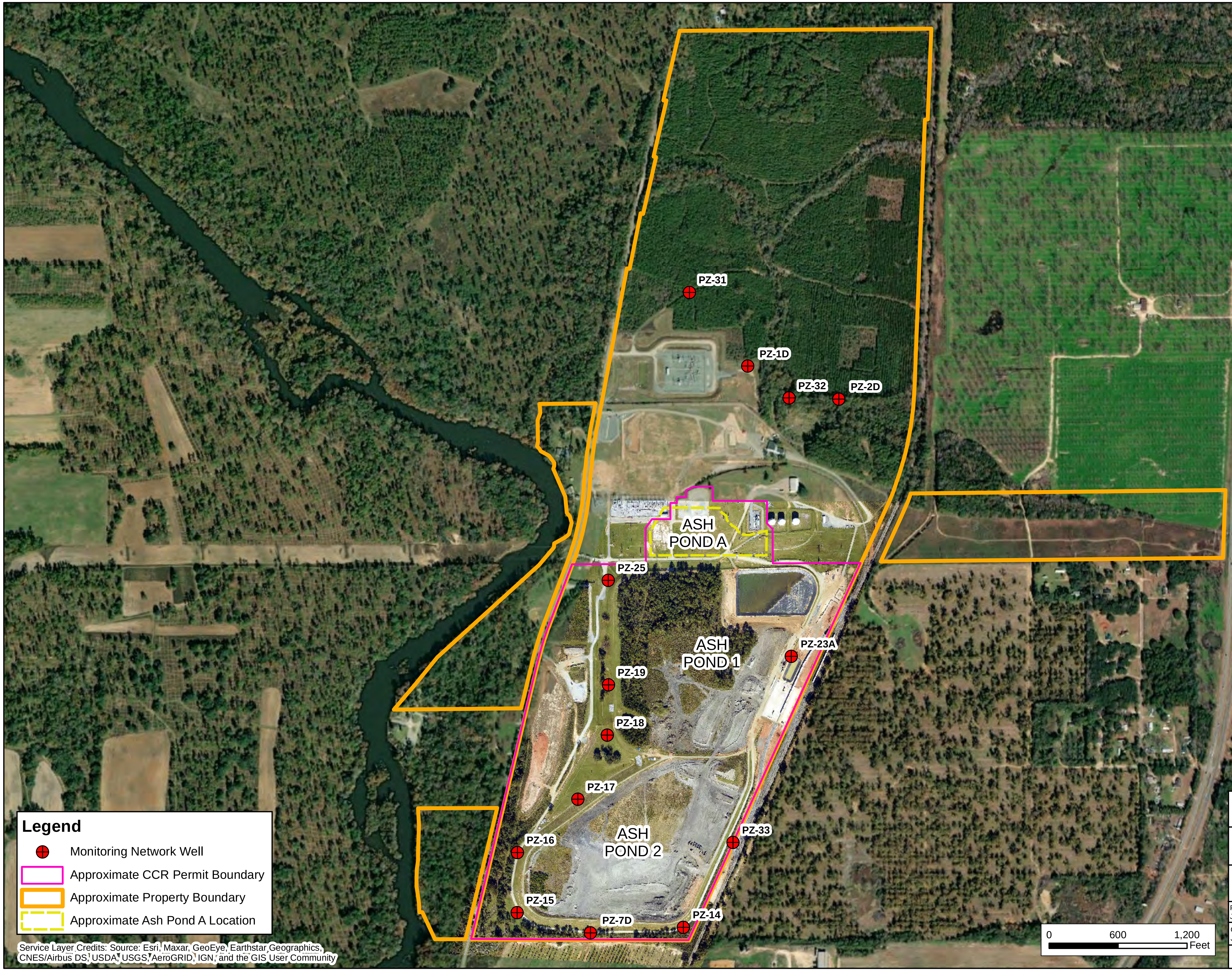
TABLE 9
SUMMARY OF GROUNDWATER PROTECTION STANDARDS
Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Constituent	Units	MCL	Federal CCR Rule Specified Limit	Site-Specific Background October 2020	State Derived Site GWPS (2) October 2020	Site-Specific Background March 2021	State Derived Site GWPS (2) March 2021
Antimony	mg/L	0.006		0.0035	0.006	0.0035	0.006
Arsenic	mg/L	0.01		0.005	0.01	0.005	0.01
Barium	mg/L	2.0		0.0587	2.0	0.0547	2.0
Beryllium	mg/L	0.004		0.003	0.004	0.003	0.004
Cadmium	mg/L	0.005		0.0025	0.005	0.0025	0.005
Chromium	mg/L	0.1		0.011	0.1	0.011	0.1
Cobalt (1)	mg/L		0.006	0.005	0.005	0.005	0.005
Fluoride	mg/L	4.0		0.29	4.0	0.29	4.0
Lead (1) (3)	mg/L		0.015	0.005	0.005	0.001	0.001
Lithium (1) (4)	mg/L		0.04	0.03	0.03	0.03	0.03
Mercury	mg/L	0.002		0.0005	0.002	0.0002	0.002
Molybdenum (1)	mg/L		0.1	0.01	0.01	0.01	0.01
Combined Radium	piC/L	5.0		1.783	5.0	1.754	5.0
Selenium	mg/L	0.05		0.01	0.05	0.005	0.05
Thallium	mg/L	0.002		0.001	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


Albany
Putney
Site location
Baconton
N
Roadside Park
Blue Hole Spring
Goat Island
Gaging Station
Powerplant
River Bend
Dry Creek
DOUGHERTY CO
BAKER CO
MITCHELL CO
DOUGHERTY CO
MITCHELL CO
BLUE SPRINGS
STAGECOACH
ROAD
Mt Calvary Ch
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 Annual Groundwater Monitoring and Corrective Action Report
Site Location Map
Prepared By-Date: JCD - 7/9/2021
Checked By-Date: JMQ - 7/9/2021
Project Number: 6122160170
wood.
Figure: 1

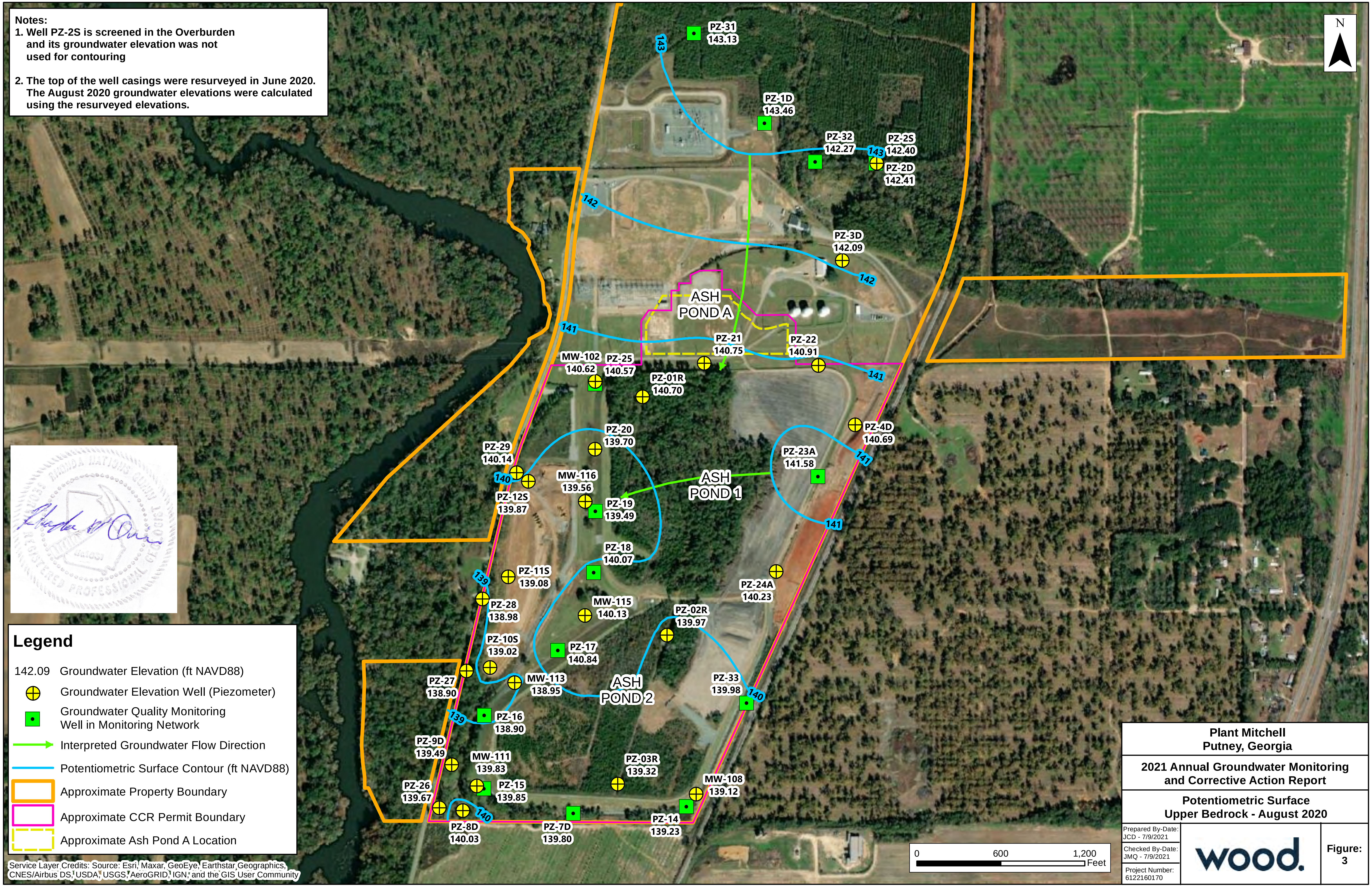


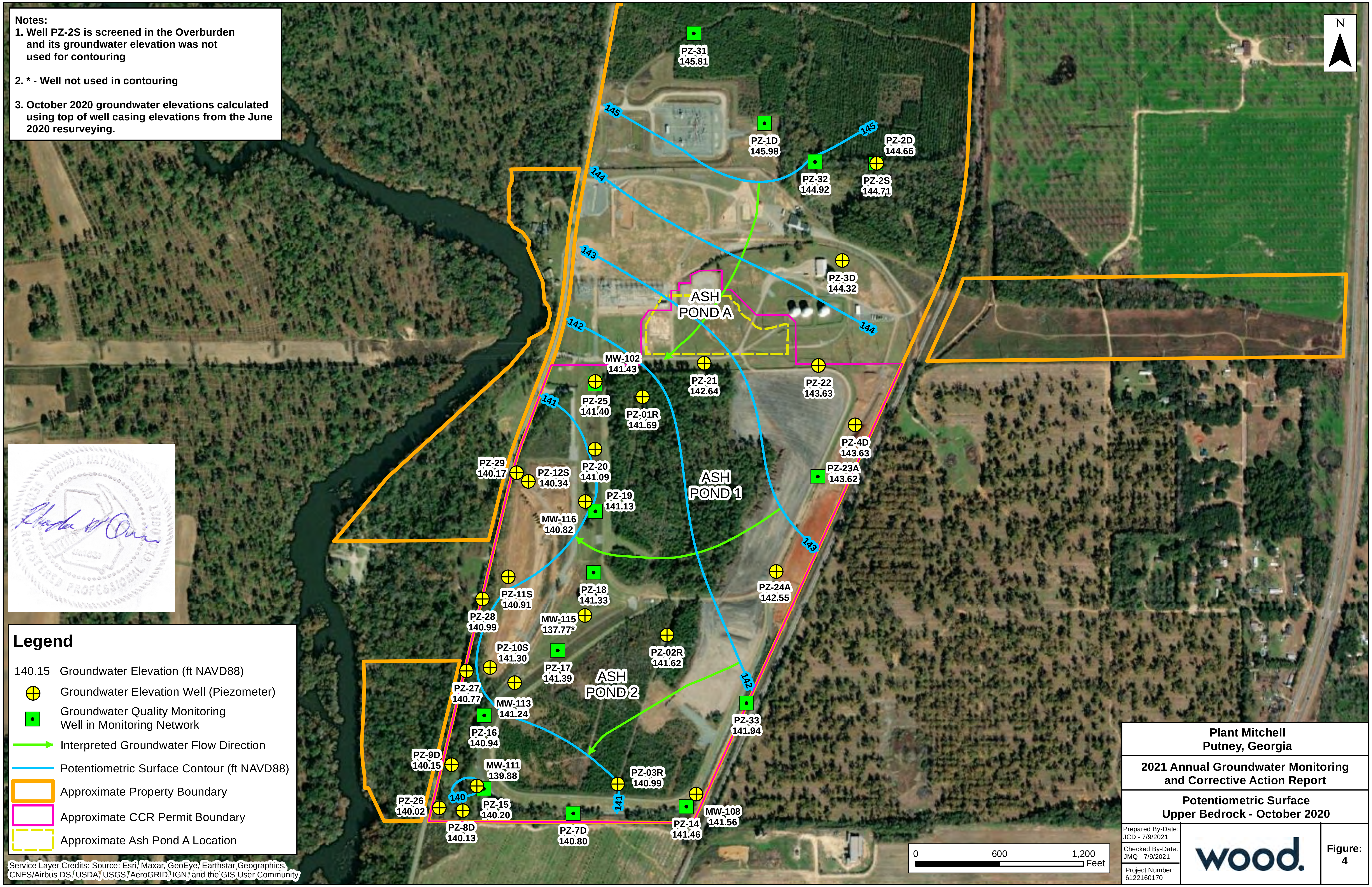
Plant Mitchell
Putney, Georgia

2021 Annual Groundwater Monitoring and Corrective Action Report

Monitoring Network Well Location Map

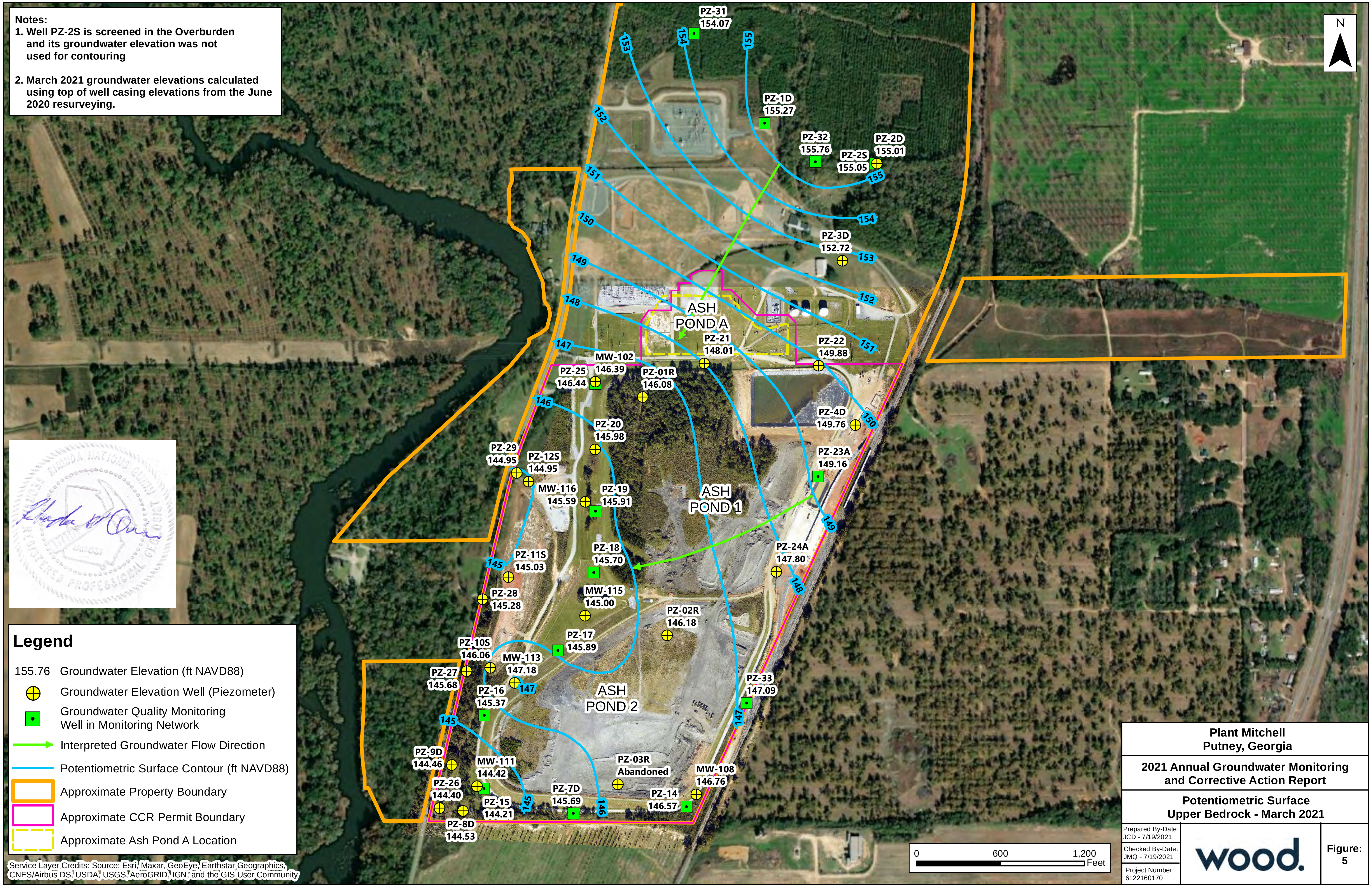
Prepared By-Date: JCD - 7/19/2021	wood.	Figure: 2
Checked By-Date: JMQ - 7/19/2021		
Project Number: 6122160170		


Notes:
1. Well PZ-2S is screened in the Overburden and its groundwater elevation was not used for contouring
2. The top of the well casings were resurveyed in June 2020. The August 2020 groundwater elevations were calculated using the resurveyed elevations.
N
PZ-31 143.13
143
PZ-1D 143.46
PZ-32 142.27
PZ-2S 142.40
PZ-2D 142.41
142
PZ-3D 142.09
ASH POND A
141
PZ-21 140.75
PZ-22 140.91
MW-102 140.62
PZ-25 140.57
PZ-01R 140.70
PZ-4D 140.69
PZ-20 139.70
PZ-23A 141.58
PZ-29 140.14
140
MW-116 139.56
ASH POND 1
PZ-12S 139.87
PZ-19 139.49
PZ-18 140.07
PZ-11S 139.08
139
PZ-24A 140.23
PZ-28 138.98
MW-115 140.13
PZ-02R 139.97
PZ-10S 139.02
PZ-17 140.84
PZ-27 138.90
MW-113 138.95
ASH POND 2
PZ-33 139.98
PZ-16 138.90
PZ-9D 139.49
MW-111 139.83
PZ-03R 139.32
PZ-26 139.67
PZ-15 139.85
MW-108 139.12
PZ-8D 140.03
PZ-7D 139.80
PZ-14 139.23
Legend
142.09 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 Annual Groundwater Monitoring and Corrective Action Report
Potentiometric Surface
Upper Bedrock - August 2020
Prepared By-Date: JCD - 7/9/2021
Checked By-Date: JMQ - 7/9/2021
Project Number: 6122160170
wood.
Figure: 3



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. October 2020 groundwater elevations calculated using top of well casing elevations from the June 2020 resurveying.
N
PZ-31 145.81
PZ-1D 145.98
PZ-2D 144.66
PZ-32 144.92
PZ-2S 144.71
PZ-3D 144.32
145
144
143
142
141
140
ASH POND A
MW-102 141.43
PZ-21 142.64
PZ-22 143.63
PZ-25 141.40
PZ-01R 141.69
PZ-4D 143.63
PZ-23A 143.62
PZ-29 140.17
PZ-12S 140.34
PZ-20 141.09
PZ-19 141.13
ASH POND 1
MW-116 140.82
PZ-24A 142.55
PZ-11S 140.91
PZ-18 141.33
PZ-28 140.99
MW-115 137.77*
PZ-02R 141.62
PZ-10S 141.30
PZ-17 141.39
ASH POND 2
PZ-27 140.77
MW-113 141.24
PZ-33 141.94
PZ-16 140.94
PZ-9D 140.15
MW-111 139.88
PZ-03R 140.99
PZ-26 140.02
PZ-15 140.20
MW-108 141.56
PZ-8D 140.13
PZ-7D 140.80
PZ-14 141.46
Legend
140.15 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 Annual Groundwater Monitoring and Corrective Action Report
Potentiometric Surface
Upper Bedrock - October 2020
Prepared By-Date: JCD - 7/9/2021
Checked By-Date: JMQ - 7/9/2021
Project Number: 6122160170
wood.
Figure: 4

Notes:
1. Well PZ-2S is screened in the Overburden and its groundwater elevation was not used for contouring
2. March 2021 groundwater elevations calculated using top of well casing elevations from the June 2020 resurveying.



Legend

155.76 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

Plant Mitchell
Putney, Georgia

2021 Annual Groundwater Monitoring and Corrective Action Report

Potentiometric Surface
Upper Bedrock - March 2021

Prepared By-Date: JCD - 7/19/2021
Checked By-Date: JMQ - 7/19/2021
Project Number: 6122160170

wood.

Figure: 5

APPENDIX A

WELL ABANDONMENTS

February 15, 2021

Environment & Infrastructure Solutions
1075 Big Shanty Road, Suite 100
Kennesaw, Georgia 30144
USA

T: +1 770-421-3400

www.woodplc.com

Mr. Jeremy Kerly
Charah Solutions, Inc
12601 Plantside Drive
Louisville, KY 40299

Subject: **Ash Pond 2 Piezometer Abandonment Report**
Plant Mitchell Albany, Dougherty and Mitchell County, Georgia
Wood Project No. 6123201586

Dear Mr. Kerly:

Wood Environment & Infrastructure Solutions, Inc. (Wood) is pleased to submit this letter summarizing the abandonment of piezometer PZ-03R at Plant Mitchell in Albany, Dougherty County, Georgia (Site). The closure of the piezometer was conducted in preparation for construction activities relating to ash removal that would impact the current locations of select monitoring wells in the Coal Combustion Residuals (CCR) monitoring and gauging program.

Summary of Abandonment Activities

Piezometer PZ-03R, located along the southern end of Ash Pond 2, was abandoned by removal. The well abandonment record is included as Attachment A and the piezometer location is shown on the figure included as Attachment B.

A Wood representative provided oversight and documentation of the abandonment activities, which were conducted by Cascade Drilling personnel. Well abandonment activities were conducted from December 17-18, 2020. Abandonment activities were conducted in accordance with the guidance outlined in the Georgia Water Well Standards Act (O.C.G.A. §12-5-120 through 138), Georgia Geologic Survey (GGS) Circular 13 (Grouting and Plugging of Domestic Water Wells in Georgia), and the U.S. EPA Region 4 Science and Ecosystem Support Division (SESD) guidance (SESDGUID-101-R1, Design and Installation of Monitoring Wells, dated January 29, 2013). A summary of the abandoned wells, including construction details, are provided in Table 1.

The well was abandoned under the direction of a Georgia Professional Engineer. The depth to groundwater and total depth of the well was measured prior to its abandonment. The well was abandoned by overdrilling inside the six-inch outer casing down to the bottom of the well to remove the two-inch well casing. The borehole was backfilled with 5 to 10 percent bentonite cement grout mix placed into the borehole from the bottom to the top by pressure grouting via positive displacement to approximately 25 ft below ground surface which was the approximate bottom of the ash material. The grout was allowed to settle and cure overnight so that the grout would not be displaced when the upper outer casing was over drilled and backfilled with sand.

The following day the top 25 ft of the boring, which was the six-inch outer casing, was over drilled and backfilled by removing one section of the augers at a time and backfilling with sand to the top of the ash pond surface. The two-inch and the six-inch outer casing were removed from the borehole and disposed of. Attachment C provides photographs of the abandonment activities.

Thank you for the opportunity to be of service on this project. Please call us with any questions regarding the information presented herein.

Sincerely,
Wood Environment & Infrastructure Solutions, Inc.

Daniel L Howard

Daniel L. Howard
Senior Professional

Gregory J. Wrenn, PE
Project Manager

GEORGIA REGISTERED No. 025565 PROFESSIONAL ENGINEER GREGORY J. WRENN

Attachments:
Table 1 – Well Construction Table
Attachment A – Well Abandonment Record
Attachment B –Location of Abandoned Piezometer and Photographs
Attachment C - Photos of Well Abandonment

Table 1 - Well Construction Table

Ash Pond 2 Well Abandonment Report
Plant Mitchell

Project No. 6123-20-1586
January 22, 2021

Well ID	Date of Construction	Latitude*	Longitude*	Water-Bearing Zone Monitoring Interval	Location	Well Diameter (inches)	Boring Depth (ft bgs)	Well Depth (ft bgs)	Well Depth (ft btoc)	Field Measured Depth (ft bgs)	Field Measured Depth (ft btoc)	Well Screen Length (ft)	Stick-up Height (ft ags)	Depth to Water (ft btoc)	Date Decom-missioned	Decommission Method	Grout Volume Used (gallons)	Sand Used (pounds)
PZ-03R	2/9/2016	31.43427	-84.13547	Bedrock	AP-2	2.0	56.4	56.4	61.0	56.4	61.0	10.0	4.6	51.36	12/18/2020	Overdrill	26.5	1250

Notes:

ft	Feet
bgs	Below ground surface
btoc	Below top of casing
ags	Above ground surface
*	Horizontal locations referenced to the North American Datum of 1983

Prepare by: D.H. 1/14/2021
Checked by: N.J.M 1/22/2021

ATTACHMENT A

WELL ABANDONMENT RECORD

MONITORING WELL ABANDONMENT RECORD

wood.

WELL NO.: PZ-03R

PROJECT NAME: GPC-Plant Mitchell

PROJECT NO.: 6123-20-1586

DATE: 12/17/20 - 12/18/20

Name of Property Owner: GPC-Plant Mitchell

Address of Property: 5200 Radium Springs Rd, Albany, GA 31075

Original Purpose of Well Installation: ground-water quality monitoring

Total Depth of Well (Measured from Top of Riser): 61 ft btoc total well depth 56.4 ft bgs total boring depth

Well Diameter: 2 inches

Screen Slot Size: 0.010 - inch

Length of Screen: 10 ft (46.4 to 56.4 ft bgs)

Depth to Water/Date (Measure from Top of Riser): 51.36 / 10/5/20

Description of Well Abandonment Method: Overdrilling and grouting up to bottom of ash and backfilling with sand to the surface

Type and Volume of Materials Used to Plug Well/Borehole: ≈ 26.5 Gallons of Holcim Type I Portland Cement

Riser and Screen Removed or Left in Place: Removed

Drilling Contractor: Cascade Drilling

Driller's Name: Jimmy Hall

Additional Notes - Well has 6" outer casing down to ≈ 25'. From 31.4 down to 56.4 was ~~assum~~ DH estimated to be 2" well through natural soil. Material above ~~31.4~~ DH 25 ft to surface was assumed to be ash. Top 25 ft was overdrilled with 9" auger and backfilled with sand after 25 ft down to 56.4 ft was overdrilled with 6" auger and backfilled with grout.

Wood Environment & Infrastructure Solutions Field Representative: Daniel Howard

Date Well Abandonment Completed: 12/18/20

ATTACHMENT B

LOCATION OF ABANDONED PIEZOMETER

Plant Mitchell
Putney, Georgia

Location of Abandoned Piezometer

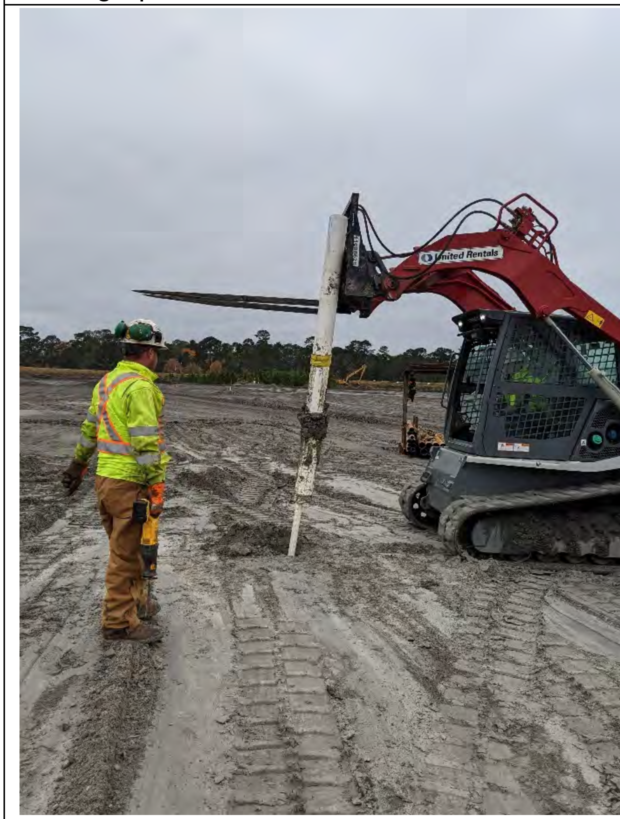
Prepared By-Date: NJM - 1/19/2021	wood.	**Figure: 1**
Checked By-Date: DH - 1/19/2021		
Project Number: 61220160170		

Z:\6121170635 MIT CSM Hydrogeo\1 MXDs\PZ 03R Abandonment.mxd

ATTACHMENT C

PHOTOS OF WELL ABANDMENT

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany Georgia	1
Photographer: Daniel Howard	Date: 12/17/20



Removal of riser pipe and outer casing above ground surface, 6 ft 9 inches.

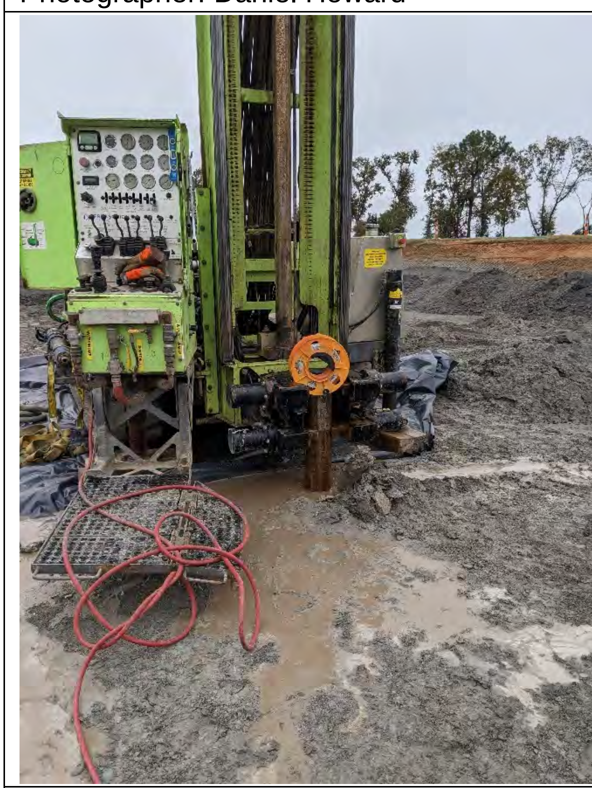
Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	2
Photographer: Daniel Howard	Date: 12/17/20

Casing above ground surface has been removed.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	3
Photographer: Daniel Howard	Date: 12/17/20

Setup drill rig on well to begin overdrilling well to abandon well.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	4
Photographer: Daniel Howard	Date: 12/17/20



Two-inch inner casing of well overdrilled with 6 inch auger down to 53 ft.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	5
Photographer: Daniel Howard	Date: 12/17/20

Mixing grout to backfill borehole to bottom of ash pond. Approximately 26.5 gallons

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	6
Photographer: Daniel Howard	Date: 12/17/20

Removing augers and well casing after backfilling with grout.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	7
Photographer: Daniel Howard	Date: 12/17/20

Removing final auger and 2-inch casing from overdrilled well.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	8
Photographer: Daniel Howard	Date: 12/17/20

PVC pipe removed from well.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	9
Photographer: Daniel Howard	Date: 12/18/20

Overdrilling outer casing with 9-inch augers in upper 25 ft of the well down to bottom of ash pond.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	10
Photographer: Daniel Howard	Date: 12/18/20

Drilled down to 25 ft. to bottom of ash pond.

Wood Photographic Log	PZ-03R
Plant Mitchell, Albany, Georgia	11
Photographer: Daniel Howard	Date: 12/18/20

Backfilling 25 ft., 9-inch borehole through ash with sand.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	12
Photographer: Daniel Howard	Date: 12/18/20

Finished backfilling 25 ft, 9-inch borehole from bottom of ash pond to ground surface.

July 26, 2021

Environment & Infrastructure Solutions
1075 Big Shanty Road, Suite 100
Kennesaw, Georgia 30144
USA

T: +1 770-421-3400

www.woodplc.com

Mr. Ben Hodges
Southern Company
241 Ralph McGill Blvd NE
Bin 10185
Atlanta, GA 30308

Subject: **Report of Well Abandonment at Plant Mitchell for Piezometer PZ-26**
Putney, Georgia
Wood Project No. 6123201586.01

Dear Mr. Hodges:

Wood Environment & Infrastructure Solutions, Inc. (Wood) is pleased to submit this letter summarizing the abandonment of piezometer PZ-26 at Plant Mitchell in Putney, Georgia (Site). The abandonment of the piezometer PZ-26 was conducted because Phase 1 construction activities relating to ash removal will impact the current location of the piezometer in the Coal Combustion Residuals (CCR) monitoring and gauging program.

Summary of Abandonment Activities

Piezometer PZ-26, located outside the southwestern corner of Ash Pond 2, was abandoned on May 4, 2021. The well abandonment record is included as Attachment A and the location is shown on the figure included as Attachment B.

A Wood representative provided oversight and documentation of the abandonment activities, which were conducted by Cascade Drilling personnel. Well abandonment activities were conducted from May 3 to 4, 2021 for PZ-26. Abandonment activities were conducted in accordance with the guidance outlined in the Georgia Water Well Standards Act (O.C.G.A. §12-5-120 through 138), Georgia Geologic Survey (GGS) Circular 13 (Grouting and Plugging of Domestic Water Wells in Georgia), and the U.S. EPA Region 4 Science and Ecosystem Support Division (SESD) guidance (SESDGUID-101-R2, Design and Installation of Monitoring Wells, dated January 16, 2018). A summary of the abandoned piezometer details, including construction details, is provided in Table 1. The piezometer was abandoned under the direction of a Georgia Professional Engineer. The depth to groundwater and total depth of the piezometer was measured prior to abandonment.

Piezometer PZ-26 was abandoned by overdrilling the two-inch well casing with six-inch diameter augers down to the bottom of the well. The two inch well casing was removed and the borehole was backfilled with five to 10 percent bentonite cement grout mix placed into the borehole from the bottom to the top by pressure grouting via positive displacement. The grout settled 15 feet overnight and the top 15 feet were filled with two bags of bentonite chips and hydrated the following day to plug the borehole and then grouted to the ground surface. At the direction of the construction company conducting the pond closure, the soil cuttings from the abandonment of PZ-26 were placed in a roll-off container with other pond closure waste.

Thank you for the opportunity to be of service on this project. Please call us with any questions regarding the information presented herein.

Sincerely,

Wood Environment & Infrastructure Solutions, Inc.

Nicholas McMillan, P.G.
Senior Professional

NICHOLAS JARRAD MCMILLAN
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2308

Gregory J. Wrenn, PE
Project Manager

GEORGIA
REGISTERED
No. 025565
PROFESSIONAL
ENGINEER
GREGORY J. WRENN

Attachments:
Table 1 -Piezometer Construction and Abandonment
Attachment A – Well Abandonment Records
Attachment B – Piezometer Location Map
Attachment C – Photos of Well Abandonment

cc: Joju Abraham, Southern Company Services

TABLE 1
PIEZOMETER CONSTRUCTION AND ABANDONMENT
Plant Mitchell - Putney, Georgia
Ash Pond 2

Well ID	Date of Construction	Latitude(1)	Longitude(1)	Water-Bearing Zone Monitoring Interval	Location	Well Diameter (inches)	Boring Depth (ft bgs)	Field Measured Depth (ft bgs)	Field Measured Depth (ft btoc)	Well Screen Length (ft)	Stick-up Height (ft ags)	Depth to Water (ft btoc)	Date Decom-missioned	Decommission Method	Grout Volume Used (gallons)	Sand Used (pounds)
PZ-26	10/1/2016	31.433801	-84.139549	Bedrock	AP-2	2.0	50.2	49.6	52.3	10	2.7	23.27	5/4/2021	Overdrill	74.05(2)	N/A

Notes:

ft	Feet
bgs	Below ground surface
btoc	Below top of casing
ags	Above ground surface
(1)	Horizontal locations referenced to the North American Datum of 1983
(2)	In addition to 74.05 gallons of grout, 100 pounds of bentonite chips were added to the top 15 feet to complete the plugging of the borehole.
N/A	Not applicable

ATTACHMENT A

WELL ABANDONMENT RECORDS

MONITORING WELL ABANDONMENT RECORD

WELL NO.: PZ-26
PROJECT NAME: Plant Mitchell
PROJECT NO.: 6123201586
DATE: 5/3/21

wood.

Name of Property Owner Georgia Power Company

Address of Property 5200 Radium Spring Rd, Albany, GA 31075

Original Purpose of Well Installation Observation Well (groundwater quality)

Total Depth of Well
(Measured from Top of Riser) 52.25 ft btoc total well depth 49.55 ft bgs total boring depth

Well Diameter 2 inches

Screen Slot Size 0.010 - inch

Length of Screen 10 ft (39.55 to 49.55 ft bgs)

Depth to Water/Date
(Measure from Top of Riser) 23.27Ft (4/30/21)

Description of Well Abandonment Method Overdrill and grout up to top of ground surface

Type and Volume of Materials Used to Plug Well/Borehole 74.05 Gallons of Quikrete Type I/II Portland Cement

Riser and Screen Removed or Left in Place Removed as much of the PVC well casing as possible

Drilling Contractor Cascade Driller's Name James Everson

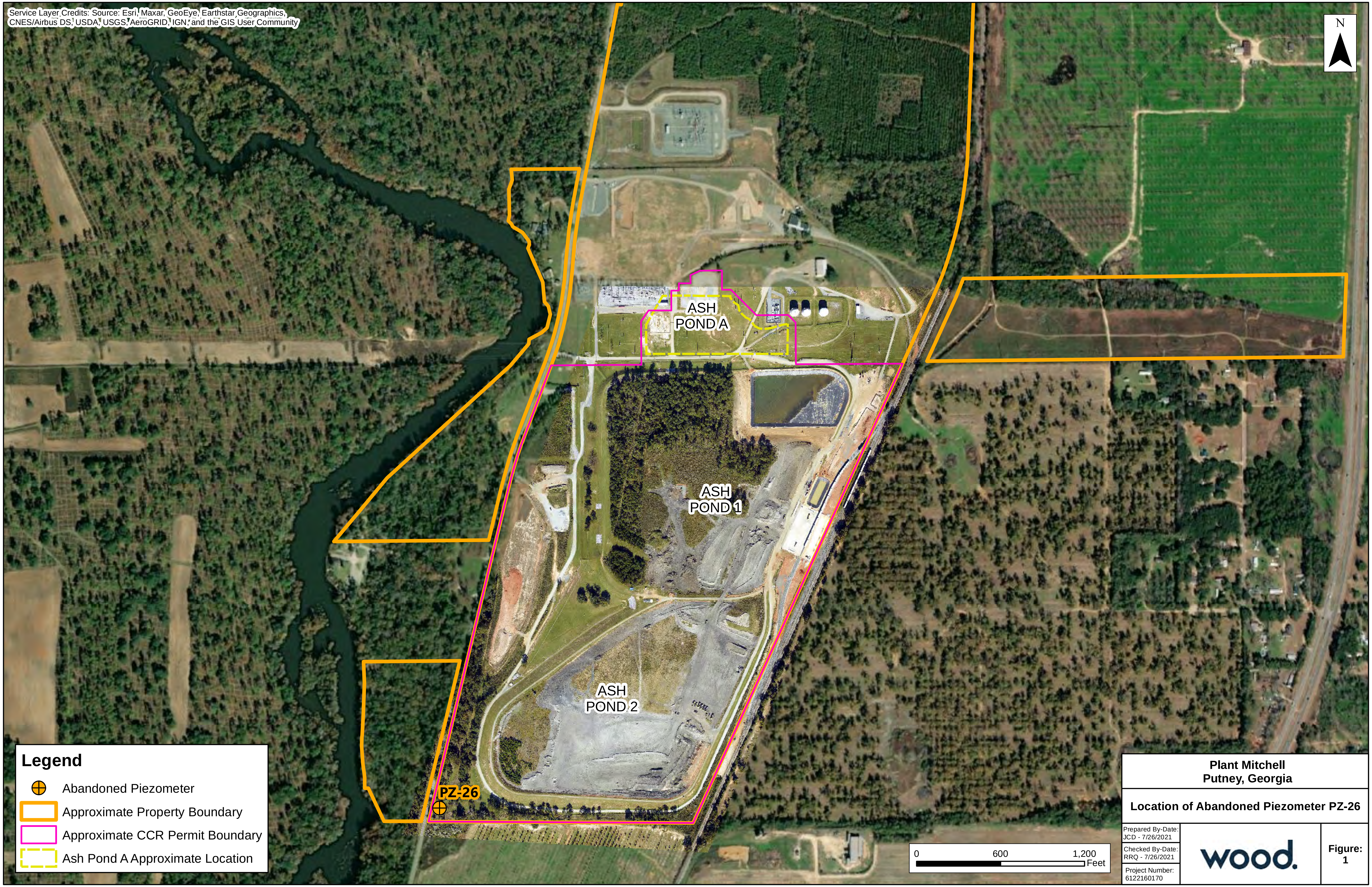
Additional Notes -
Well is 2.0 inch diameter down to 49.55 Ft. The 2 inch well was overdrilled with a 6 inch auger down to 50.2Ft. All of the PVC well casing was removed including the well screen. Then the borehole was backfilled with grout. The grout dropped down to 15Ft overnight. Add ~~one~~ two 50lb bag of bentonite chips to plug the hole, Then grouted up to ground surface.

Wood Environment & Infrastructure Solutions Field Representative Daniel Howard

Date Well Abandonment Completed 5/4/21

ATTACHMENT B

PIEZOMETER LOCATION MAP



Plant Mitchell
Putney, Georgia

Location of Abandoned Piezometer PZ-26

Prepared By-Date: JCD - 7/26/2021			
Checked By-Date: RRQ - 7/26/2021	wood.	Figure: 1	
Project Number: 6122160170			

ATTACHMENT C

PHOTOS OF WELL ABANDONDMENT

Wood Photographic Log	PZ-26
Site: Plant Mitchell, Albany Georgia	1
Photographer: Daniel Howard	Date: 5/3/2021

Removal of concrete pad and bollards.

Wood Photographic Log	PZ-26
Site: Plant Mitchell, Albany, Georgia	2
Photographer: Daniel Howard	Date: 5/3/2021

Setup of drill rig on well.

Wood Photographic Log	PZ-26
Site: Plant Mitchell, Albany, Georgia	3
Photographer: Daniel Howard	Date: 5/3/2021

Begin overdrilling well to abandon well.

Wood Photographic Log	PZ-26
Site: Plant Mitchell, Albany, Georgia	4
Photographer: Daniel Howard	Date: 5/3/2021

Two-inch inner casing of well overdrilled with 6-inch auger.

Wood Photographic Log	PZ-26
Site: Plant Mitchell, Albany, Georgia	5
Photographer: Daniel Howard	Date: 5/3/2021

Removing part of well casing.

Wood Photographic Log	PZ-26
Site: Plant Mitchell, Albany, Georgia	6
Photographer: Daniel Howard	Date: 5/3/2021

Part of casing inside auger.

Wood Photographic Log	PZ-26
Site: Plant Mitchell, Albany, Georgia	7
Photographer: Daniel Howard	Date: 5/3/2021

Well screen removed from bottom of well.

Wood Photographic Log	PZ-26
Site: Plant Mitchell, Albany, Georgia	8
Photographer: Daniel Howard	Date: 5/3/2021

Complete well casing removed from well.

Wood Photographic Log	PZ-26
Site: Plant Mitchell, Albany, Georgia	9
Photographer: Daniel Howard	Date: 5/3/2021

Grouting up borehole with tremie pipe.

Wood Photographic Log	PZ-26
Site: Plant Mitchell, Albany, Georgia	10
Photographer: Daniel Howard	Date: 5/5/2021

Overdrilled well grouted up to ground surface.

Wood Photographic Log	PZ-26
Plant Mitchell, Albany, Georgia	11
Photographer: Daniel Howard	Date: 5/5/2021

Area after debris removal.

APPENDIX B

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-14	8/26/20	6.0	1800	44.47	0.24	26.35	6.98	474.15	0.98	4.52	43.45
PZ-14	10/6/20	4.7	1500	42.57	0.30	22.00	7.01	518.52	0.90	5.20	33.14
PZ-14	3/3/21	4.1	1500	36.62	0.24	19.63	6.99	511.39	0.97	4.77	72.0
PZ-15	8/26/20	10.6	1813	31.43	0.28	23.10	7.08	529.20	1.13	0.14	-66.66
PZ-15	10/7/20	11.8	2400	30.88	0.19	23.62	7.11	531.30	1.51	0.17	103.62
PZ-15	3/4/21	6.0	1800	21.62	0.03	21.24	7.09	551.91	0.82	0.15	34.8
PZ-16	8/26/20	7.3	1500	35.04	0.13	22.43	7.18	465.16	0.77	1.12	122.95
PZ-16	10/6/20	5.8	1500	33.51	0.11	22.22	7.24	466.81	0.83	1.29	22.72
PZ-16	3/4/21	7.0	2100	25.68	0.00	20.50	7.34	442.31	1.78	1.50	56.8
PZ-17	8/26/20	8.1	1800	33.30	0.14	22.57	6.98	625.88	0.73	0.15	-66.61
PZ-17	10/7/20	8.2	1800	32.22	0.13	22.09	7.04	641.16	2.08	0.12	-11.82
PZ-17	3/4/21	6.9	1500	22.88	0.19	19.70	7.09	556.36	1.50	0.15	13.3
PZ-18	8/27/20	8.0	2400	29.85	0.21	23.91	6.88	613.20	1.89	0.16	-0.53
PZ-18	10/7/20	5.2	1500	29.39	0.09	23.26	6.91	699.65	1.33	0.22	12.46
PZ-18	3/4/21	5.6	1200	20.62	0.03	21.06	6.91	694.53	1.28	0.14	25.8
PZ-19	8/26/20	7.0	2100	32.61	0.05	24.68	6.68	853.13	1.15	0.18	87.43
PZ-19	10/7/20	8.3	1800	31.61	0.10	22.82	6.78	773.82	0.24	0.15	131.61
PZ-19	3/3/21	7.0	2100	23.94	0.01	20.08	6.78	759.61	0.22	0.20	56.0
PZ-1D	8/25/20	9.0	2700	54.33	1.35	25.79	7.49	223.39	4.71	2.72	43.38
PZ-1D	10/6/20	12.0	3600	52.72	2.00	22.04	7.35	251.48	0.61	2.33	1.18
PZ-1D	3/3/21	12.0	3600	41.21	1.19	17.75	7.56	268.02	1.07	2.63	41.5
PZ-23A	8/26/20	10.0	3301	50.70	0.51	22.73	6.64	768.63	3.76	2.64	102.51
PZ-23A	10/6/20	13.4	4500	48.90	0.45	22.27	6.78	782.26	3.99	2.14	25.18
PZ-23A	3/3/21	9.1	3900	42.47	0.35	19.77	6.79	756.19	4.89	2.54	55.4
PZ-25	8/26/20	7.0	2100	30.88	0.31	24.62	7.09	472.58	0.95	0.23	-88.44
PZ-25	10/7/20	9.9	2100	30.17	0.06	21.84	6.95	456.87	0.18	0.35	59.35
PZ-25	3/3/21	7.0	2100	22.03	0.02	19.71	7.04	457.13	0.36	0.14	-71.6
PZ-2D	8/26/20	7.0	2100	36.25	0.15	20.60	7.97	171.46	1.10	2.10	114.03
PZ-2D	10/6/20	13.8	3000	34.35	0.50	19.78	8.72	133.27	1.40	1.83	66.45
PZ-2D	3/8/21	7.6	2265	20.94	0.17	18.52	7.77	216.49	1.91	3.68	81.5
PZ-31	8/25/20	5.7	1800	40.35	0.44	22.55	7.14	470.14	1.50	4.68	187.03
PZ-31	10/6/20	10.0	3003	37.92	0.59	21.64	7.01	437.51	2.39	4.70	21.56
PZ-31	3/3/21	9.0	2700	26.98	0.61	19.45	7.14	456.28	1.53	5.02	61.0
PZ-32	8/25/20	10.6	2400	38.50	0.06	19.91	7.53	319.44	0.09	0.50	134.60
PZ-32	10/6/20	14.5	2701	36.28	0.00	19.48	7.27	318.64	0.10	0.61	110.73
PZ-32	3/3/21	6.3	1500	21.64	-0.03	17.45	7.41	311.25	0.73	0.39	72.5
PZ-33	8/26/20	7.0	2103	50.03	0.40	21.91	6.99	508.72	0.46	0.15	16.45
PZ-33	10/7/20	13.0	3900	48.44	0.22	23.91	7.04	576.98	0.36	0.22	19.64
PZ-33	3/4/21	7.0	2100	40.81	0.81	21.03	7.22	510.21	1.27	0.15	37.1
PZ-7D	8/26/20	8.0	2400	33.48	0.20	24.28	7.01	508.25	0.93	0.28	19.02
PZ-7D	10/7/20	9.3	2100	32.83	1.11	22.07	6.98	554.30	1.00	0.32	114.85
PZ-7D	3/4/21	6.0	1800	23.31	-0.02	20.43	6.95	587.33	2.21	0.51	76.3

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

June 03, 2021

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

RE: Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Dear Michelle Barker:

Enclosed are the analytical results for sample(s) received by the laboratory between August 27, 2020 and August 28, 2020. 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,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

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

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CERTIFICATIONS

Project:	MITCHELL APP IV SCAN
Pace Project No.:	92492821

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

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SAMPLE SUMMARY

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92492821001	**PZ-23A**	Water	08/26/20 10:10	08/27/20 09:47
92492821002	**DUP-02**	Water	08/26/20 00:00	08/27/20 09:47
92492821003	**PZ-15**	Water	08/26/20 12:25	08/27/20 09:47
92492821004	**PZ-16**	Water	08/26/20 14:10	08/27/20 09:47
92492821005	**PZ-17**	Water	08/26/20 15:45	08/27/20 09:47
92492821006	**PZ-19**	Water	08/26/20 15:35	08/27/20 09:47
92492821007	**PZ-33**	Water	08/26/20 10:20	08/27/20 09:47
92492821008	**PZ-14**	Water	08/26/20 14:10	08/27/20 09:47
92492821009	**PZ-7D**	Water	08/26/20 15:35	08/27/20 09:47
92492821010	**EB-01**	Water	08/25/20 14:45	08/27/20 09:47
92492821011	**PZ-32**	Water	08/25/20 14:55	08/27/20 09:47
92492821012	**PZ-31**	Water	08/25/20 16:15	08/27/20 09:47
92492821013	**PZ-1D**	Water	08/25/20 16:05	08/27/20 09:47
92492821014	**FB-01**	Water	08/26/20 08:40	08/27/20 09:47
92492821015	**PZ-2D + QC**	Water	08/26/20 10:52	08/27/20 09:47
92492821016	**PZ-25**	Water	08/26/20 13:50	08/27/20 09:47
92492821017	**DUP-01**	Water	08/26/20 00:00	08/27/20 09:47
92492821018	**PZ-18 + QC**	Water	08/27/20 10:05	08/28/20 11:08

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SAMPLE ANALYTE COUNT

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92492821001	**PZ-23A**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821002	**DUP-02**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821003	**PZ-15**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821004	**PZ-16**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821005	**PZ-17**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821006	**PZ-19**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821007	**PZ-33**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821008	**PZ-14**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821009	**PZ-7D**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821010	**EB-01**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821011	**PZ-32**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821012	**PZ-31**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821013	**PZ-1D**	EPA 6020B	CW1	12

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SAMPLE ANALYTE COUNT

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821014	**FB-01**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821015	**PZ-2D + QC**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821016	**PZ-25**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821017	**DUP-01**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821018	**PZ-18 + QC**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	BRJ	1

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

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SUMMARY OF DETECTION

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92492821001	**PZ-23A**					
	pH	6.64	Std. Units		09/10/20 09:33	
EPA 6020B	Antimony	0.00038J	mg/L	0.0030	09/01/20 16:40	B
EPA 6020B	Barium	0.039	mg/L	0.010	09/01/20 16:40	
EPA 6020B	Chromium	0.0014J	mg/L	0.010	09/01/20 16:40	
EPA 6020B	Cobalt	0.00058J	mg/L	0.0050	09/01/20 16:40	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	09/01/20 16:40	
EPA 6020B	Selenium	0.0026J	mg/L	0.010	09/01/20 16:40	
EPA 6020B	Thallium	0.00016J	mg/L	0.0010	09/01/20 16:40	
EPA 7470A	Mercury	0.00017J	mg/L	0.00050	09/01/20 10:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.10	08/28/20 18:40	
92492821002	**DUP-02**					
	pH	6.64	Std. Units		09/10/20 09:33	
EPA 6020B	Antimony	0.0016J	mg/L	0.0030	09/01/20 17:03	B
EPA 6020B	Barium	0.037	mg/L	0.010	09/01/20 17:03	
EPA 6020B	Chromium	0.0013J	mg/L	0.010	09/01/20 17:03	
EPA 6020B	Cobalt	0.00055J	mg/L	0.0050	09/01/20 17:03	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	09/01/20 17:03	
EPA 6020B	Selenium	0.0033J	mg/L	0.010	09/01/20 17:03	
EPA 7470A	Mercury	0.00017J	mg/L	0.00050	09/01/20 10:46	
92492821003	**PZ-15**					
	pH	7.08	Std. Units		09/10/20 09:33	
EPA 6020B	Antimony	0.00062J	mg/L	0.0030	09/01/20 17:08	B
EPA 6020B	Barium	0.053	mg/L	0.010	09/01/20 17:08	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	09/01/20 17:08	
EPA 6020B	Selenium	0.0018J	mg/L	0.010	09/01/20 17:08	
EPA 6020B	Thallium	0.00027J	mg/L	0.0010	09/01/20 17:08	
92492821004	**PZ-16**					
	pH	7.18	Std. Units		09/10/20 09:33	
EPA 6020B	Antimony	0.00037J	mg/L	0.0030	09/01/20 17:14	B
EPA 6020B	Barium	0.036	mg/L	0.010	09/01/20 17:14	
EPA 6020B	Chromium	0.00087J	mg/L	0.010	09/01/20 17:14	
92492821005	**PZ-17**					
	pH	6.98	Std. Units		09/10/20 09:33	
EPA 6020B	Antimony	0.00061J	mg/L	0.0030	09/01/20 17:20	B
EPA 6020B	Barium	0.077	mg/L	0.010	09/01/20 17:20	
EPA 6020B	Lithium	0.0028J	mg/L	0.030	09/01/20 17:20	
EPA 6020B	Thallium	0.00025J	mg/L	0.0010	09/01/20 17:20	
92492821006	**PZ-19**					
	pH	6.68	Std. Units		09/10/20 09:33	
EPA 6020B	Barium	0.049	mg/L	0.010	09/01/20 17:46	
EPA 6020B	Lithium	0.011J	mg/L	0.030	09/01/20 17:46	
EPA 6020B	Molybdenum	0.0020J	mg/L	0.010	09/01/20 17:46	
EPA 6020B	Selenium	0.0031J	mg/L	0.010	09/01/20 17:46	
EPA 6020B	Thallium	0.00056J	mg/L	0.0010	09/01/20 17:46	

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SUMMARY OF DETECTION

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92492821006	**PZ-19**					
EPA 7470A	Mercury	0.00010J	mg/L	0.00050	09/01/20 11:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.062J	mg/L	0.10	08/28/20 20:25	
92492821007	**PZ-33**					
	pH	6.99	Std. Units		09/10/20 09:33	
EPA 6020B	Barium	0.051	mg/L	0.010	09/01/20 17:52	
EPA 7470A	Mercury	0.00011J	mg/L	0.00050	09/01/20 11:03	
92492821008	**PZ-14**					
	pH	6.98	Std. Units		09/10/20 09:33	
EPA 6020B	Barium	0.016	mg/L	0.010	09/01/20 17:57	
EPA 6020B	Chromium	0.0011J	mg/L	0.010	09/01/20 17:57	
EPA 7470A	Mercury	0.00015J	mg/L	0.00050	09/01/20 11:05	
92492821009	**PZ-7D**					
	pH	7.01	Std. Units		09/10/20 09:33	
EPA 6020B	Antimony	0.00031J	mg/L	0.0030	09/01/20 18:03	B
EPA 6020B	Barium	0.0070J	mg/L	0.010	09/01/20 18:03	
EPA 6020B	Chromium	0.0011J	mg/L	0.010	09/01/20 18:03	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	09/01/20 18:03	
EPA 6020B	Selenium	0.0018J	mg/L	0.010	09/01/20 18:03	
92492821011	**PZ-32**					
	pH	7.53	Std. Units		09/10/20 09:33	
EPA 6020B	Barium	0.015	mg/L	0.010	09/01/20 18:14	
EPA 6020B	Chromium	0.0010J	mg/L	0.010	09/01/20 18:14	
EPA 6020B	Lead	0.000063J	mg/L	0.0050	09/01/20 18:14	
92492821012	**PZ-31**					
	pH	7.14	Std. Units		09/10/20 09:33	
EPA 6020B	Barium	0.0071J	mg/L	0.010	09/01/20 18:20	
EPA 6020B	Chromium	0.0011J	mg/L	0.010	09/01/20 18:20	
EPA 7470A	Mercury	0.00010J	mg/L	0.00050	09/01/20 11:15	
92492821013	**PZ-1D**					
	pH	7.49	Std. Units		09/10/20 09:33	
EPA 6020B	Antimony	0.0012J	mg/L	0.0030	09/01/20 18:26	B
EPA 6020B	Barium	0.014	mg/L	0.010	09/01/20 18:26	
EPA 6020B	Chromium	0.0030J	mg/L	0.010	09/01/20 18:26	
EPA 6020B	Lead	0.000065J	mg/L	0.0050	09/01/20 18:26	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	09/01/20 18:26	
EPA 7470A	Mercury	0.000099J	mg/L	0.00050	09/01/20 11:17	
92492821014	**FB-01**					
EPA 7470A	Mercury	0.000099J	mg/L	0.00050	09/01/20 11:19	
92492821015	**PZ-2D + QC**					
	pH	7.97	Std. Units		09/10/20 09:33	
EPA 6020B	Antimony	0.00080J	mg/L	0.0030	09/01/20 18:37	B
EPA 6020B	Barium	0.0051J	mg/L	0.010	09/01/20 18:37	

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SUMMARY OF DETECTION

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92492821015	**PZ-2D + QC**					
EPA 6020B	Chromium	0.0040J	mg/L	0.010	09/01/20 18:37	
EPA 6020B	Lithium	0.0015J	mg/L	0.030	09/01/20 18:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.10	08/28/20 23:38	
92492821016	**PZ-25**					
	pH	7.09	Std. Units		09/10/20 09:33	
EPA 6020B	Barium	0.10	mg/L	0.010	09/01/20 18:54	
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	09/01/20 18:54	
EPA 6020B	Lithium	0.0065J	mg/L	0.030	09/01/20 18:54	
EPA 6020B	Thallium	0.00037J	mg/L	0.0010	09/01/20 18:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	08/29/20 00:23	
92492821017	**DUP-01**					
	pH	7.09	Std. Units		09/10/20 09:33	
EPA 6020B	Barium	0.10	mg/L	0.010	09/01/20 19:00	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	09/01/20 19:00	
EPA 6020B	Lithium	0.0062J	mg/L	0.030	09/01/20 19:00	
EPA 6020B	Thallium	0.00036J	mg/L	0.0010	09/01/20 19:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	08/29/20 01:08	
92492821018	**PZ-18 + QC**					
	pH	6.88	Std. Units		09/10/20 09:33	
EPA 6020B	Barium	0.023	mg/L	0.010	09/01/20 20:39	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	09/01/20 20:39	

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: PZ-23A **Lab ID: 92492821001** Collected: 08/26/20 10:10 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**6.64**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00038J**	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 16:40	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 16:40	7440-38-2	
Barium	**0.039**	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 16:40	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 16:40	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 16:40	7440-43-9	
Chromium	**0.0014J**	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 16:40	7440-47-3	
Cobalt	**0.00058J**	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 16:40	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 16:40	7439-92-1	
Lithium	**0.0011J**	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 16:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 16:40	7439-98-7	
Selenium	**0.0026J**	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 16:40	7782-49-2	
Thallium	**0.00016J**	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 16:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00017J**	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 10:37	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.057J**	mg/L	0.10	0.050	1		08/28/20 18:40	16984-48-8	

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: DUP-02 **Lab ID: 92492821002** Collected: 08/26/20 00:00 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**6.64**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0016J**	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 17:03	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 17:03	7440-38-2	
Barium	**0.037**	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 17:03	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 17:03	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 17:03	7440-43-9	
Chromium	**0.0013J**	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 17:03	7440-47-3	
Cobalt	**0.00055J**	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 17:03	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 17:03	7439-92-1	
Lithium	**0.0011J**	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 17:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 17:03	7439-98-7	
Selenium	**0.0033J**	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 17:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 17:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00017J**	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 10:46	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 18:55	16984-48-8	

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: PZ-15 **Lab ID: 92492821003** Collected: 08/26/20 12:25 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**7.08**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00062J**	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 17:08	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 17:08	7440-38-2	
Barium	**0.053**	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 17:08	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 17:08	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 17:08	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 17:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 17:08	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 17:08	7439-92-1	
Lithium	**0.0013J**	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 17:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 17:08	7439-98-7	
Selenium	**0.0018J**	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 17:08	7782-49-2	
Thallium	**0.00027J**	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 17:08	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 10:48	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 19:10	16984-48-8	

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: PZ-16 **Lab ID: 92492821004** Collected: 08/26/20 14:10 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**7.18**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00037J**	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 17:14	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 17:14	7440-38-2	
Barium	**0.036**	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 17:14	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 17:14	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 17:14	7440-43-9	
Chromium	**0.00087J**	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 17:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 17:14	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 17:14	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 17:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 17:14	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 17:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 17:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 10:51	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 19:25	16984-48-8	

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: PZ-17 **Lab ID: 92492821005** Collected: 08/26/20 15:45 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**6.98**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00061J**	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 17:20	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 17:20	7440-38-2	
Barium	**0.077**	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 17:20	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 17:20	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 17:20	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 17:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 17:20	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 17:20	7439-92-1	
Lithium	**0.0028J**	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 17:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 17:20	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 17:20	7782-49-2	
Thallium	**0.00025J**	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 17:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 10:53	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 19:40	16984-48-8	

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: PZ-19 **Lab ID: 92492821006** Collected: 08/26/20 15:35 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**6.68**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 17:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 17:46	7440-38-2	
Barium	**0.049**	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 17:46	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 17:46	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 17:46	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 17:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 17:46	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 17:46	7439-92-1	
Lithium	**0.011J**	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 17:46	7439-93-2	
Molybdenum	**0.0020J**	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 17:46	7439-98-7	
Selenium	**0.0031J**	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 17:46	7782-49-2	
Thallium	**0.00056J**	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 17:46	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00010J**	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:00	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.062J**	mg/L	0.10	0.050	1		08/28/20 20:25	16984-48-8	

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: PZ-33 **Lab ID: 92492821007** Collected: 08/26/20 10:20 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**6.99**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 17:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 17:52	7440-38-2	
Barium	**0.051**	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 17:52	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 17:52	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 17:52	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 17:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 17:52	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 17:52	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 17:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 17:52	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 17:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 17:52	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00011J**	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:03	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 21:39	16984-48-8	

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: PZ-14 **Lab ID: 92492821008** Collected: 08/26/20 14:10 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**6.98**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 17:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 17:57	7440-38-2	
Barium	**0.016**	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 17:57	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 17:57	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 17:57	7440-43-9	
Chromium	**0.0011J**	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 17:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 17:57	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 17:57	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 17:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 17:57	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 17:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 17:57	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00015J**	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:05	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 21:54	16984-48-8	

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: PZ-7D **Lab ID: 92492821009** Collected: 08/26/20 15:35 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**7.01**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00031J**	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:03	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:03	7440-38-2	
Barium	**0.0070J**	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:03	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:03	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:03	7440-43-9	
Chromium	**0.0011J**	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:03	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:03	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:03	7439-98-7	
Selenium	**0.0018J**	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:07	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 22:09	16984-48-8	

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: EB-01 **Lab ID: 92492821010** Collected: 08/25/20 14:45 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:09	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:09	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:09	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:09	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:09	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:09	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:10	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 22:24	16984-48-8	

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: PZ-32 **Lab ID: 92492821011** Collected: 08/25/20 14:55 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**7.53**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:14	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:14	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:14	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:14	7440-43-9	
Chromium	**0.0010J**	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:14	7440-48-4	
Lead	**0.000063J**	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:14	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:14	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:12	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 22:39	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: PZ-31 **Lab ID: 92492821012** Collected: 08/25/20 16:15 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**7.14**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:20	7440-38-2	
Barium	**0.0071J**	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:20	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:20	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:20	7440-43-9	
Chromium	**0.0011J**	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:20	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:20	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00010J**	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:15	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 22:54	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: PZ-1D **Lab ID: 92492821013** Collected: 08/25/20 16:05 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**7.49**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0012J**	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:26	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:26	7440-38-2	
Barium	**0.014**	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:26	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:26	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:26	7440-43-9	
Chromium	**0.0030J**	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:26	7440-48-4	
Lead	**0.000065J**	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:26	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:26	7439-93-2	
Molybdenum	**0.0010J**	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:26	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.000099J**	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:17	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 23:09	16984-48-8	

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: FB-01 **Lab ID: 92492821014** Collected: 08/26/20 08:40 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:32	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:32	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:32	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:32	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:32	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:32	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.000099J**	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:19	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 23:23	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: PZ-2D + QC **Lab ID: 92492821015** Collected: 08/26/20 10:52 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**7.97**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00080J**	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:37	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:37	7440-38-2	
Barium	**0.0051J**	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:37	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:37	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:37	7440-43-9	
Chromium	**0.0040J**	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:37	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:37	7439-92-1	
Lithium	**0.0015J**	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:37	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:26	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.057J**	mg/L	0.10	0.050	1		08/28/20 23:38	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: PZ-25 **Lab ID: 92492821016** Collected: 08/26/20 13:50 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
pH	**7.09**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:54	7440-38-2	
Barium	**0.10**	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:54	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:54	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:54	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:54	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:54	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:54	7439-92-1	
Lithium	**0.0065J**	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:54	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:54	7782-49-2	
Thallium	**0.00037J**	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:29	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.14**	mg/L	0.10	0.050	1		08/29/20 00:23	16984-48-8	

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: DUP-01 **Lab ID: 92492821017** Collected: 08/26/20 00:00 Received: 08/27/20 09:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
	Pace Analytical Services - Charlotte								
pH	**7.09**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
	Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 19:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 19:00	7440-38-2	
Barium	**0.10**	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 19:00	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 19:00	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 19:00	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 19:00	7440-47-3	
Cobalt	**0.0015J**	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 19:00	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 19:00	7439-92-1	
Lithium	**0.0062J**	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 19:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 19:00	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 19:00	7782-49-2	
Thallium	**0.00036J**	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 19:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
	Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:31	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
	Pace Analytical Services - Asheville								
Fluoride	**0.14**	mg/L	0.10	0.050	1		08/29/20 01:08	16984-48-8	

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ANALYTICAL RESULTS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Sample: PZ-18 + QC **Lab ID: 92492821018** Collected: 08/27/20 10:05 Received: 08/28/20 11:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
	Pace Analytical Services - Charlotte								
pH	**6.88**	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
	Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	09/01/20 14:03	09/01/20 20:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/01/20 14:03	09/01/20 20:39	7440-38-2	
Barium	**0.023**	mg/L	0.010	0.00071	1	09/01/20 14:03	09/01/20 20:39	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/01/20 14:03	09/02/20 17:27	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/01/20 14:03	09/01/20 20:39	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/01/20 14:03	09/01/20 20:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/01/20 14:03	09/01/20 20:39	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/01/20 14:03	09/01/20 20:39	7439-92-1	
Lithium	**0.0025J**	mg/L	0.030	0.00081	1	09/01/20 14:03	09/01/20 20:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/01/20 14:03	09/01/20 20:39	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/01/20 14:03	09/01/20 20:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/01/20 14:03	09/01/20 20:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
	Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:34	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
	Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/29/20 19:27	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

QC Batch: 563083
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92492821001, 92492821002, 92492821003, 92492821004, 92492821005, 92492821006, 92492821007, 92492821008, 92492821009, 92492821010, 92492821011, 92492821012, 92492821013, 92492821014, 92492821015, 92492821016, 92492821017

METHOD BLANK: 2985842 Matrix: Water
Associated Lab Samples: 92492821001, 92492821002, 92492821003, 92492821004, 92492821005, 92492821006, 92492821007, 92492821008, 92492821009, 92492821010, 92492821011, 92492821012, 92492821013, 92492821014, 92492821015, 92492821016, 92492821017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00043J	0.0030	0.00028	09/01/20 16:28	
Arsenic	mg/L	ND	0.0050	0.00078	09/01/20 16:28	
Barium	mg/L	ND	0.010	0.00071	09/01/20 16:28	
Beryllium	mg/L	ND	0.0030	0.000046	09/01/20 16:28	
Cadmium	mg/L	ND	0.0025	0.00012	09/01/20 16:28	
Chromium	mg/L	ND	0.010	0.00055	09/01/20 16:28	
Cobalt	mg/L	ND	0.0050	0.00038	09/01/20 16:28	
Lead	mg/L	ND	0.0050	0.000036	09/01/20 16:28	
Lithium	mg/L	ND	0.030	0.00081	09/01/20 16:28	
Molybdenum	mg/L	ND	0.010	0.00069	09/01/20 16:28	
Selenium	mg/L	ND	0.010	0.0016	09/01/20 16:28	
Thallium	mg/L	ND	0.0010	0.00014	09/01/20 16:28	

LABORATORY CONTROL SAMPLE: 2985843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.095	95	80-120	
Arsenic	mg/L	0.1	0.090	90	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Cadmium	mg/L	0.1	0.094	94	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.092	92	80-120	
Lead	mg/L	0.1	0.093	93	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.096	96	80-120	
Selenium	mg/L	0.1	0.089	89	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985844 2985845

Parameter	Units	92492821001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00038J	0.1	0.1	0.096	0.095	96	95	75-125	2	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 APP IV SCAN
Pace Project No.: 92492821

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985844 2985845

Parameter	Units	92492821001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.092	0.095	92	95	75-125	3	20	
Barium	mg/L	0.039	0.1	0.1	0.13	0.13	90	89	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.087	0.086	87	86	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20	
Chromium	mg/L	0.0014J	0.1	0.1	0.093	0.094	92	93	75-125	1	20	
Cobalt	mg/L	0.00058J	0.1	0.1	0.090	0.092	89	92	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.087	0.089	87	89	75-125	2	20	
Lithium	mg/L	0.0011J	0.1	0.1	0.089	0.088	87	87	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.096	96	95	75-125	1	20	
Selenium	mg/L	0.0026J	0.1	0.1	0.097	0.099	95	96	75-125	2	20	
Thallium	mg/L	0.00016J	0.1	0.1	0.088	0.090	88	90	75-125	2	20	

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

QC Batch: 563747
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92492821018

METHOD BLANK: 2988642 Matrix: Water
Associated Lab Samples: 92492821018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	09/01/20 19:19	
Arsenic	mg/L	ND	0.0050	0.00078	09/01/20 19:19	
Barium	mg/L	ND	0.010	0.00071	09/01/20 19:19	
Beryllium	mg/L	ND	0.0030	0.000046	09/02/20 16:41	
Cadmium	mg/L	ND	0.0025	0.00012	09/01/20 19:19	
Chromium	mg/L	ND	0.010	0.00055	09/01/20 19:19	
Cobalt	mg/L	ND	0.0050	0.00038	09/01/20 19:19	
Lead	mg/L	ND	0.0050	0.000036	09/01/20 19:19	
Lithium	mg/L	ND	0.030	0.00081	09/01/20 19:19	
Molybdenum	mg/L	ND	0.010	0.00069	09/01/20 19:19	
Selenium	mg/L	ND	0.010	0.0016	09/01/20 19:19	
Thallium	mg/L	ND	0.0010	0.00014	09/01/20 19:19	

LABORATORY CONTROL SAMPLE: 2988643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.092	92	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.092	92	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2988644 2988645

Parameter	Units	92492563004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.095	100	95	75-125	5	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.093	99	92	75-125	7	20	
Barium	mg/L	0.056	0.1	0.1	0.15	0.15	93	90	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.091	0.089	91	89	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 APP IV SCAN
Pace Project No.: 92492821

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2988644 2988645

Parameter	Units	92492563004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/L	ND	0.1	0.1	0.097	0.094	97	94	75-125	3	20	
Chromium	mg/L	0.00098J	0.1	0.1	0.098	0.10	97	100	75-125	3	20	
Cobalt	mg/L	0.00061J	0.1	0.1	0.097	0.098	97	97	75-125	1	20	
Lead	mg/L	0.00036J	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Lithium	mg/L	0.0028J	0.1	0.1	0.092	0.091	89	88	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.093	98	92	75-125	7	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

QC Batch: 563371 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92492821001, 92492821002, 92492821003, 92492821004, 92492821005, 92492821006, 92492821007, 92492821008, 92492821009, 92492821010, 92492821011, 92492821012, 92492821013, 92492821014, 92492821015, 92492821016, 92492821017, 92492821018

METHOD BLANK: 2987108 Matrix: Water

Associated Lab Samples: 92492821001, 92492821002, 92492821003, 92492821004, 92492821005, 92492821006, 92492821007, 92492821008, 92492821009, 92492821010, 92492821011, 92492821012, 92492821013, 92492821014, 92492821015, 92492821016, 92492821017, 92492821018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	09/01/20 10:32	

LABORATORY CONTROL SAMPLE: 2987109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2987110 2987111

Parameter	Units	92492821001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00017J	0.0025	0.0025	0.0026	0.0025	95	95	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

QC Batch: 563041 | Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 | Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92492821001, 92492821002, 92492821003, 92492821004, 92492821005

METHOD BLANK: 2985598 | Matrix: Water
Associated Lab Samples: 92492821001, 92492821002, 92492821003, 92492821004, 92492821005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/28/20 12:28	

LABORATORY CONTROL SAMPLE: 2985599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985600 2985601

Parameter	Units	92492850001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.95	2.5	2.5	3.7	3.7	109	109	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985602 2985603

Parameter	Units	92492705011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.7	2.8	108	109	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

QC Batch: 563042
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: 92492821006, 92492821007, 92492821008, 92492821009, 92492821010, 92492821011, 92492821012, 92492821013, 92492821014, 92492821015, 92492821016, 92492821017

METHOD BLANK: 2985604 Matrix: Water

Associated Lab Samples: 92492821006, 92492821007, 92492821008, 92492821009, 92492821010, 92492821011, 92492821012, 92492821013, 92492821014, 92492821015, 92492821016, 92492821017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/28/20 19:55	

LABORATORY CONTROL SAMPLE: 2985605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985606 2985607

Parameter	Units	92492821006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.062J	2.5	2.5	2.7	2.7	105	106	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985608 2985609

Parameter	Units	92492821016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.14	2.5	2.5	2.8	2.8	106	106	90-110	0	10	

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QUALITY CONTROL DATA

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

QC Batch: 563290
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: 92492821018

METHOD BLANK: 2986801 Matrix: Water
Associated Lab Samples: 92492821018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/29/20 14:28	

LABORATORY CONTROL SAMPLE: 2986802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986803 2986804

Parameter	Units	92493054001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.14	2.5	2.5	2.8	2.8	105	106	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986805 2986806

Parameter	Units	92492705017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.15	2.5	2.5	2.8	2.8	105	107	90-110	1	10	

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QUALIFIERS

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

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.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92492821001	**PZ-23A**				
92492821002	**DUP-02**				
92492821003	**PZ-15**				
92492821004	**PZ-16**				
92492821005	**PZ-17**				
92492821006	**PZ-19**				
92492821007	**PZ-33**				
92492821008	**PZ-14**				
92492821009	**PZ-7D**				
92492821011	**PZ-32**				
92492821012	**PZ-31**				
92492821013	**PZ-1D**				
92492821015	**PZ-2D + QC**				
92492821016	**PZ-25**				
92492821017	**DUP-01**				
92492821018	**PZ-18 + QC**				
92492821001	**PZ-23A**	EPA 3005A	563083	EPA 6020B	563099
92492821002	**DUP-02**	EPA 3005A	563083	EPA 6020B	563099
92492821003	**PZ-15**	EPA 3005A	563083	EPA 6020B	563099
92492821004	**PZ-16**	EPA 3005A	563083	EPA 6020B	563099
92492821005	**PZ-17**	EPA 3005A	563083	EPA 6020B	563099
92492821006	**PZ-19**	EPA 3005A	563083	EPA 6020B	563099
92492821007	**PZ-33**	EPA 3005A	563083	EPA 6020B	563099
92492821008	**PZ-14**	EPA 3005A	563083	EPA 6020B	563099
92492821009	**PZ-7D**	EPA 3005A	563083	EPA 6020B	563099
92492821010	**EB-01**	EPA 3005A	563083	EPA 6020B	563099
92492821011	**PZ-32**	EPA 3005A	563083	EPA 6020B	563099
92492821012	**PZ-31**	EPA 3005A	563083	EPA 6020B	563099
92492821013	**PZ-1D**	EPA 3005A	563083	EPA 6020B	563099
92492821014	**FB-01**	EPA 3005A	563083	EPA 6020B	563099
92492821015	**PZ-2D + QC**	EPA 3005A	563083	EPA 6020B	563099
92492821016	**PZ-25**	EPA 3005A	563083	EPA 6020B	563099
92492821017	**DUP-01**	EPA 3005A	563083	EPA 6020B	563099
92492821018	**PZ-18 + QC**	EPA 3005A	563747	EPA 6020B	563831
92492821001	**PZ-23A**	EPA 7470A	563371	EPA 7470A	563653
92492821002	**DUP-02**	EPA 7470A	563371	EPA 7470A	563653
92492821003	**PZ-15**	EPA 7470A	563371	EPA 7470A	563653
92492821004	**PZ-16**	EPA 7470A	563371	EPA 7470A	563653
92492821005	**PZ-17**	EPA 7470A	563371	EPA 7470A	563653
92492821006	**PZ-19**	EPA 7470A	563371	EPA 7470A	563653
92492821007	**PZ-33**	EPA 7470A	563371	EPA 7470A	563653
92492821008	**PZ-14**	EPA 7470A	563371	EPA 7470A	563653
92492821009	**PZ-7D**	EPA 7470A	563371	EPA 7470A	563653
92492821010	**EB-01**	EPA 7470A	563371	EPA 7470A	563653
92492821011	**PZ-32**	EPA 7470A	563371	EPA 7470A	563653
92492821012	**PZ-31**	EPA 7470A	563371	EPA 7470A	563653
92492821013	**PZ-1D**	EPA 7470A	563371	EPA 7470A	563653

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL APP IV SCAN
Pace Project No.: 92492821

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92492821014	**FB-01**	EPA 7470A	563371	EPA 7470A	563653
92492821015	**PZ-2D + QC**	EPA 7470A	563371	EPA 7470A	563653
92492821016	**PZ-25**	EPA 7470A	563371	EPA 7470A	563653
92492821017	**DUP-01**	EPA 7470A	563371	EPA 7470A	563653
92492821018	**PZ-18 + QC**	EPA 7470A	563371	EPA 7470A	563653
92492821001	**PZ-23A**	EPA 300.0 Rev 2.1 1993	563041		
92492821002	**DUP-02**	EPA 300.0 Rev 2.1 1993	563041		
92492821003	**PZ-15**	EPA 300.0 Rev 2.1 1993	563041		
92492821004	**PZ-16**	EPA 300.0 Rev 2.1 1993	563041		
92492821005	**PZ-17**	EPA 300.0 Rev 2.1 1993	563041		
92492821006	**PZ-19**	EPA 300.0 Rev 2.1 1993	563042		
92492821007	**PZ-33**	EPA 300.0 Rev 2.1 1993	563042		
92492821008	**PZ-14**	EPA 300.0 Rev 2.1 1993	563042		
92492821009	**PZ-7D**	EPA 300.0 Rev 2.1 1993	563042		
92492821010	**EB-01**	EPA 300.0 Rev 2.1 1993	563042		
92492821011	**PZ-32**	EPA 300.0 Rev 2.1 1993	563042		
92492821012	**PZ-31**	EPA 300.0 Rev 2.1 1993	563042		
92492821013	**PZ-1D**	EPA 300.0 Rev 2.1 1993	563042		
92492821014	**FB-01**	EPA 300.0 Rev 2.1 1993	563042		
92492821015	**PZ-2D + QC**	EPA 300.0 Rev 2.1 1993	563042		
92492821016	**PZ-25**	EPA 300.0 Rev 2.1 1993	563042		
92492821017	**DUP-01**	EPA 300.0 Rev 2.1 1993	563042		
92492821018	**PZ-18 + QC**	EPA 300.0 Rev 2.1 1993	563290		

Pace Analytical

Sample Condition Upon Receipt

WO# : 92492821

92492821

Client Name: G A Power

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

Tracking #: 8121 9394 4915 / 8121 9394 4890 / 8121 9394 4926 / 8121 9394 4904

Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☐ yes ☐ no

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

Thermometer Used 214 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 4.1 / 5.8 / 3.3 / 2.5 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 8/27/2019

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: ______ Date/Time: ______

Comments/ Resolution: ______

Project Manager Review: ______ **Date:** ______

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)

F-ALLC003rev.3, 11September2006

Pace Analytical®	Document Name: Bottle Identification Form (BIF)	Document Issued: March 14, 2019
		Page 1 of 1
	Document No.: F-CAR-CS-043-Rev.00	Issuing Authority:

Project # **WO#: 92492821**

PM: KLH1 Due Date: 09/11/20

CLIENT: GA-GA Power

***Checkmark 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 bottle**

Matrix	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)	GPIN	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)
	1		1				1																		2			
	2		1				1																		2			
	3		1				1																		2			
	4		1				1																		2			
	5		1				1																		2			
	6		1				1																		2			
	7		1				1																		2			
	8		1				1																		2			
	9		1				1																		2			
	10		1				1																		2			
	11		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	Lo

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 C
Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical	Document Name: Bottle Identification Form (BIF)	Document Issued: March 14, 2019 Page 1 of 1
	Document No.: F-CAR-CS-043-Rev.00	Issuing Authority: Pace Carolinas Quality Office

Project # **WO#: 92492821**

PM: KLH1 Due Date: 09/11/20

CLIENT: GA-GA Power

***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 bottle**

Matrix	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)	BP1N	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)
	1		1				1																		2			
	2		1				1																		2			
	3		1				1																		4			
	4		1				1																		2			
	5		1				1																					
	6																											
	7																											
	8																											
	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	Lo

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 O
Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

ttion A
quired Client Information:

npany:	Georgia Power
iress:	1075 Big Shanty Road
nnesaw, GA 30144	
ail:	rhonda quinn@amec.com
one:	(770)421-3516 Fax:
quested Due Date:	Standard

Section B
Required Project Information:

Report To:	Rhonda Quinn
Copy To:	
Purchase Order #:	
Project Name:	Mitchell App IV Scan
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	kevin.herring@pacelabs.com,
Pace Profile #:	10834

Regulatory Agency	
State / Location	GA

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

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

Requested Analysis Filtered (Y/N)

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	300.0 - F	App IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	92492821
1	PZ-23A					8/26/20	1010		4	1		3							X	X	X		pH=6.64
2	DUP-02						--		4	1		3							X	X	X		pH=6.64
3	PZ-15						1225		4	1		3							X	X	X		pH=7.08
4	PZ-16						1410		4	1		3							X	X	X		pH=7.18
5	PZ-17						1545		4	1		3							X	X	X		pH=6.98
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Daniel L Howard / Wood	8/26/20	1800	Charles Hunt	8/27/20	0947	4.1	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 8/26/20

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:

- Company: Georgia Power
- Address: 1075 Big Shanty Road
- Kennesaw, GA 30144
- Email: rhonda.quinn@amec.com
- Phone: (770)421-3516 Fax
- Requested Due Date: Standard

Section B Required Project Information:

- Report To: Rhonda Quinn
- Copy To:
- Purchase Order #:
- Project Name: Mitchell App IV Scan
- Project #:

Section C Invoice Information:

- Attention:
- Company Name:
- Address:
- Pace Quote:
- Pace Project Manager: kevin.herring@pacelabs.com,
- Pace Profile #: 10834

Regulatory Agency:

State / Location: GA

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

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1	PZ-19	WT	G			8/24/20	1535	4		1		3							X	X	X		pH=6.68
2	PZ-33	WT	G			↓	1026	4		1		3							X	X	X		pH=6.99
3	PZ-14	WT	G			↓	1410	4		1		3							X	X	X		pH=6.98
4	PZ-7D	WT	G			↓	1535	4		1		3							X	X	X		pH=7.01
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

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)
	David Howard/Wood	8/24/20	1800	Charli Fuhr	8/27/20	0947	3.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: David Howard

DATE Signed: 8/26/20

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Purchase Order #:
Project Name: Mitchell App IV Scan
Project #:

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Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@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	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	300.0 - F	App IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	[illegible]
1	EB-01	WG	G			8/[illegible]/20	1445		4	1		3							X	X	X		
2	PZ-32	WT	G				1455		4	1		3							X	X	X		pH=7.53
3	PZ-31	WT	G				1615		4	1		3							X	X	X		pH=7.14
4	PZ-1D	WT	G				1605		4	1		3							X	X	X		pH=7.49
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Daniel Howard / Wood	8/26/20	1800	Charles Hurls	8/27/20	0947	3.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Daniel Howard
SIGNATURE of SAMPLER: Daniel Howard
DATE Signed: 8/26/20

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

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Requested Due Date: Standard

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Copy To:
Purchase Order #:
Project Name: Mitchell App IV Scan
Project #:

Section C — Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@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

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1	FB-01	WT	G			8/26/20	0840		4	1		3							X	X	X		
2	PZ-2D + QC	WT	G			↓	1052		6	1		5							X	X	X		pH=7.57
3	PZ-25	WT	G			↓	1350		4	1		3							X	X	X		pH=7.09
4	DUP-01	WT	G			↓	--		4	1		3							X	X	X		pH=7.09
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	8/26/20	1800	Charles Hunter	8/27/20	0945	2.5	Y	Y	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Daniel Howard
SIGNATURE of SAMPLER: Daniel Howard
DATE Signed: 8/26/20

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

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Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	kevin.herring@pacelabs.com,
Pace Profile #:	10834

Regulatory Agency

State / Location
GA

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

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Requested Analysis Filtered (Y/N)

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	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	300.0 - F	App IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	PZ-18 + QC	WT	G			8/26/20	1005		6	1		4							X	X	X		pH=6.88
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Lab QC For radium	[signature] / WOOD	8/28/20	11:08	[signature]	8/28/20	1108	2.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ever Guillen

SIGNATURE of SAMPLER: [signature]　DATE Signed: 8/27/20

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

July 19, 2021

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

RE: Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Dear Michelle Barker:

Enclosed are the analytical results for sample(s) received by the laboratory between August 27, 2020 and August 28, 2020. 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,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

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
www.pacelabs.com

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

CERTIFICATIONS

Project:	MITCHELL APP IV SCAN RADS
Pace Project No.:	92492815

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
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(770)734-4200

SAMPLE SUMMARY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92492815001	**PZ-23A**	Water	08/26/20 10:10	08/27/20 09:47
92492815002	**DUP-02**	Water	08/26/20 00:00	08/27/20 09:47
92492815003	**PZ-15**	Water	08/26/20 12:25	08/27/20 09:47
92492815004	**PZ-16**	Water	08/26/20 14:10	08/27/20 09:47
92492815005	**PZ-17**	Water	08/26/20 15:45	08/27/20 09:47
92492815006	**PZ-19**	Water	08/26/20 15:35	08/27/20 09:47
92492815007	**PZ-33**	Water	08/26/20 10:20	08/27/20 09:47
92492815008	**PZ-14**	Water	08/26/20 14:10	08/27/20 09:47
92492815009	**PZ-7D**	Water	08/26/20 15:35	08/27/20 09:47
92492815010	**EB-01**	Water	08/25/20 14:45	08/27/20 09:47
92492815011	**PZ-32**	Water	08/25/20 14:55	08/27/20 09:47
92492815012	**PZ-31**	Water	08/25/20 16:15	08/27/20 09:47
92492815013	**PZ-1D**	Water	08/25/20 16:05	08/27/20 09:47
92492815014	**FB-01**	Water	08/26/20 08:40	08/27/20 09:47
92492815015	**PZ-2D + QC**	Water	08/26/20 10:52	08/27/20 09:47
92492815016	**PZ-25**	Water	08/26/20 13:50	08/27/20 09:47
92492815017	**DUP-01**	Water	08/26/20 00:00	08/27/20 09:47
92492815018	**PZ-18 + QC**	Water	08/27/20 10:05	08/28/20 11:08

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SAMPLE ANALYTE COUNT

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92492815001	**PZ-23A**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815002	**DUP-02**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815003	**PZ-15**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815004	**PZ-16**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815005	**PZ-17**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815006	**PZ-19**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815007	**PZ-33**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815008	**PZ-14**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815009	**PZ-7D**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815010	**EB-01**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815011	**PZ-32**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815012	**PZ-31**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815013	**PZ-1D**	EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815014	**FB-01**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815015	**PZ-2D + QC**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815016	**PZ-25**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815017	**DUP-01**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815018	**PZ-18 + QC**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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(770)734-4200

SUMMARY OF DETECTION

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92492815001	**PZ-23A**					
EPA 9315	Radium-226	0.365 ± 0.257 (0.392) C:83% T:NA	pCi/L		09/10/20 07:38	
EPA 9320	Radium-228	0.409 ± 0.387 (0.789) C:71% T:80%	pCi/L		09/11/20 14:48	
Total Radium Calculation	Total Radium	0.774 ± 0.644 (1.18)	pCi/L		09/14/20 14:03	
92492815002	**DUP-02**					
EPA 9315	Radium-226	0.214 ± 0.222 (0.423) C:83% T:NA	pCi/L		09/10/20 07:38	
EPA 9320	Radium-228	0.338 ± 0.350 (0.722) C:71% T:86%	pCi/L		09/11/20 14:48	
Total Radium Calculation	Total Radium	0.552 ± 0.572 (1.15)	pCi/L		09/14/20 14:03	
92492815003	**PZ-15**					
EPA 9315	Radium-226	0.161 ± 0.250 (0.554) C:91% T:NA	pCi/L		09/10/20 07:38	
EPA 9320	Radium-228	0.520 ± 0.384 (0.740) C:69% T:85%	pCi/L		09/11/20 14:49	
Total Radium Calculation	Total Radium	0.681 ± 0.634 (1.29)	pCi/L		09/14/20 14:03	
92492815004	**PZ-16**					
EPA 9315	Radium-226	0.0680 ± 0.181 (0.439) C:88% T:NA	pCi/L		09/10/20 07:38	
EPA 9320	Radium-228	0.431 ± 0.407 (0.834) C:74% T:82%	pCi/L		09/11/20 14:49	
Total Radium Calculation	Total Radium	0.499 ± 0.588 (1.27)	pCi/L		09/14/20 14:03	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

SUMMARY OF DETECTION

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92492815005	**PZ-17**					
EPA 9315	Radium-226	0.411 ± 0.274 (0.410) C:82% T:NA	pCi/L		09/10/20 07:38	
EPA 9320	Radium-228	1.21 ± 0.537 (0.885) C:72% T:77%	pCi/L		09/11/20 14:49	
Total Radium Calculation	Total Radium	1.62 ± 0.811 (1.30)	pCi/L		09/14/20 14:03	
92492815006	**PZ-19**					
EPA 9315	Radium-226	0.324 ± 0.236 (0.365) C:87% T:NA	pCi/L		09/10/20 07:38	
EPA 9320	Radium-228	0.379 ± 0.409 (0.854) C:70% T:88%	pCi/L		09/11/20 14:49	
Total Radium Calculation	Total Radium	0.703 ± 0.645 (1.22)	pCi/L		09/14/20 14:03	
92492815007	**PZ-33**					
EPA 9315	Radium-226	0.400 ± 0.285 (0.445) C:81% T:NA	pCi/L		09/10/20 07:32	
EPA 9320	Radium-228	0.382 ± 0.411 (0.856) C:69% T:80%	pCi/L		09/11/20 14:49	
Total Radium Calculation	Total Radium	0.782 ± 0.696 (1.30)	pCi/L		09/14/20 14:18	
92492815008	**PZ-14**					
EPA 9315	Radium-226	0.0725 ± 0.261 (0.641) C:83% T:NA	pCi/L		09/10/20 07:32	
EPA 9320	Radium-228	0.0427 ± 0.363 (0.835) C:69% T:91%	pCi/L		09/11/20 14:49	
Total Radium Calculation	Total Radium	0.115 ± 0.624 (1.48)	pCi/L		09/14/20 14:18	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92492815009	**PZ-7D**					
EPA 9315	Radium-226	0.200 ± 0.221 (0.432) C:88% T:NA	pCi/L		09/10/20 07:32	
EPA 9320	Radium-228	0.372 ± 0.394 (0.817) C:72% T:80%	pCi/L		09/11/20 14:49	
Total Radium Calculation	Total Radium	0.572 ± 0.615 (1.25)	pCi/L		09/14/20 14:18	
92492815010	**EB-01**					
EPA 9315	Radium-226	0.191 ± 0.241 (0.505) C:91% T:NA	pCi/L		09/10/20 07:32	
EPA 9320	Radium-228	0.495 ± 0.443 (0.899) C:72% T:74%	pCi/L		09/11/20 11:49	
Total Radium Calculation	Total Radium	0.686 ± 0.684 (1.40)	pCi/L		09/14/20 14:18	
92492815011	**PZ-32**					
EPA 9315	Radium-226	0.0922 ± 0.224 (0.533) C:92% T:NA	pCi/L		09/10/20 07:32	
EPA 9320	Radium-228	0.248 ± 0.367 (0.791) C:74% T:85%	pCi/L		09/11/20 11:49	
Total Radium Calculation	Total Radium	0.340 ± 0.591 (1.32)	pCi/L		09/14/20 14:18	
92492815012	**PZ-31**					
EPA 9315	Radium-226	0.0240 ± 0.142 (0.383) C:92% T:NA	pCi/L		09/10/20 07:32	
EPA 9320	Radium-228	0.381 ± 0.378 (0.780) C:74% T:85%	pCi/L		09/11/20 11:49	
Total Radium Calculation	Total Radium	0.405 ± 0.520 (1.16)	pCi/L		09/14/20 14:18	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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SUMMARY OF DETECTION

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92492815013	**PZ-1D**					
EPA 9315	Radium-226	0.384 ± 0.294 (0.526) C:92% T:NA	pCi/L		09/10/20 07:33	
EPA 9320	Radium-228	0.393 ± 0.391 (0.805) C:77% T:81%	pCi/L		09/11/20 11:50	
Total Radium Calculation	Total Radium	0.777 ± 0.685 (1.33)	pCi/L		09/14/20 14:18	
92492815014	**FB-01**					
EPA 9315	Radium-226	0.235 ± 0.231 (0.440) C:92% T:NA	pCi/L		09/10/20 07:33	
EPA 9320	Radium-228	0.381 ± 0.433 (0.910) C:72% T:78%	pCi/L		09/11/20 11:50	
Total Radium Calculation	Total Radium	0.616 ± 0.664 (1.35)	pCi/L		09/14/20 14:18	
92492815015	**PZ-2D + QC**					
EPA 9315	Radium-226	0.244 ± 0.227 (0.409) C:88% T:NA	pCi/L		09/10/20 07:33	
EPA 9320	Radium-228	0.361 ± 0.361 (0.745) C:74% T:82%	pCi/L		09/11/20 11:49	
Total Radium Calculation	Total Radium	0.605 ± 0.588 (1.15)	pCi/L		09/14/20 14:18	
92492815016	**PZ-25**					
EPA 9315	Radium-226	0.412 ± 0.325 (0.580) C:81% T:NA	pCi/L		09/10/20 07:34	
EPA 9320	Radium-228	0.538 ± 0.440 (0.884) C:72% T:81%	pCi/L		09/11/20 11:50	
Total Radium Calculation	Total Radium	0.950 ± 0.765 (1.46)	pCi/L		09/14/20 14:18	

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SUMMARY OF DETECTION

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92492815017	**DUP-01**					
EPA 9315	Radium-226	0.490 ± 0.285 (0.386) C:91% T:NA	pCi/L		09/10/20 07:34	
EPA 9320	Radium-228	0.636 ± 0.437 (0.844) C:70% T:82%	pCi/L		09/11/20 11:50	
Total Radium Calculation	Total Radium	1.13 ± 0.722 (1.23)	pCi/L		09/14/20 14:18	
92492815018	**PZ-18 + QC**					
EPA 9315	Radium-226	0.00989 ± 0.0860 (0.182) C:91% T:NA	pCi/L		09/10/20 18:19	
EPA 9320	Radium-228	0.0840 ± 0.502 (1.14) C:58% T:85%	pCi/L		09/15/20 15:03	
Total Radium Calculation	Total Radium	0.0939 ± 0.588 (1.32)	pCi/L		09/16/20 10:12	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: PZ-23A | **Lab ID: 92492815001** | Collected: 08/26/20 10:10 | Received: 08/27/20 09:47 | 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	**0.365 ± 0.257 (0.392) C:83% T:NA**	pCi/L	09/10/20 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.409 ± 0.387 (0.789) C:71% T:80%**	pCi/L	09/11/20 14:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.774 ± 0.644 (1.18)**	pCi/L	09/14/20 14:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: DUP-02 | **Lab ID: 92492815002** | Collected: 08/26/20 00:00 | Received: 08/27/20 09:47 | 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	**0.214 ± 0.222 (0.423) C:83% T:NA**	pCi/L	09/10/20 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.338 ± 0.350 (0.722) C:71% T:86%**	pCi/L	09/11/20 14:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.552 ± 0.572 (1.15)**	pCi/L	09/14/20 14:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: PZ-15 | **Lab ID: 92492815003** | Collected: 08/26/20 12:25 | Received: 08/27/20 09:47 | 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	**0.161 ± 0.250 (0.554) C:91% T:NA**	pCi/L	09/10/20 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.520 ± 0.384 (0.740) C:69% T:85%**	pCi/L	09/11/20 14:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.681 ± 0.634 (1.29)**	pCi/L	09/14/20 14:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: PZ-16 | **Lab ID: 92492815004** | Collected: 08/26/20 14:10 | Received: 08/27/20 09:47 | 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	**0.0680 ± 0.181 (0.439) C:88% T:NA**	pCi/L	09/10/20 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.431 ± 0.407 (0.834) C:74% T:82%**	pCi/L	09/11/20 14:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.499 ± 0.588 (1.27)**	pCi/L	09/14/20 14:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: PZ-17 | **Lab ID: 92492815005** | Collected: 08/26/20 15:45 | Received: 08/27/20 09:47 | 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	**0.411 ± 0.274 (0.410) C:82% T:NA**	pCi/L	09/10/20 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.21 ± 0.537 (0.885) C:72% T:77%**	pCi/L	09/11/20 14:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.62 ± 0.811 (1.30)**	pCi/L	09/14/20 14:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: PZ-19 | **Lab ID: 92492815006** | Collected: 08/26/20 15:35 | Received: 08/27/20 09:47 | 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	**0.324 ± 0.236 (0.365) C:87% T:NA**	pCi/L	09/10/20 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.379 ± 0.409 (0.854) C:70% T:88%**	pCi/L	09/11/20 14:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.703 ± 0.645 (1.22)**	pCi/L	09/14/20 14:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: PZ-33 | **Lab ID: 92492815007** | Collected: 08/26/20 10:20 | Received: 08/27/20 09:47 | 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	**0.400 ± 0.285 (0.445) C:81% T:NA**	pCi/L	09/10/20 07:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.382 ± 0.411 (0.856) C:69% T:80%**	pCi/L	09/11/20 14:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.782 ± 0.696 (1.30)**	pCi/L	09/14/20 14:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: PZ-14 | **Lab ID: 92492815008** | Collected: 08/26/20 14:10 | Received: 08/27/20 09:47 | 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	**0.0725 ± 0.261 (0.641) C:83% T:NA**	pCi/L	09/10/20 07:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0427 ± 0.363 (0.835) C:69% T:91%**	pCi/L	09/11/20 14:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.115 ± 0.624 (1.48)**	pCi/L	09/14/20 14:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: PZ-7D **Lab ID: 92492815009** Collected: 08/26/20 15:35 Received: 08/27/20 09:47 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	**0.200 ± 0.221 (0.432) C:88% T:NA**	pCi/L	09/10/20 07:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.372 ± 0.394 (0.817) C:72% T:80%**	pCi/L	09/11/20 14:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.572 ± 0.615 (1.25)**	pCi/L	09/14/20 14:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: EB-01 | **Lab ID: 92492815010** | Collected: 08/25/20 14:45 | Received: 08/27/20 09:47 | 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 ± 0.241 (0.505) C:91% T:NA**	pCi/L	09/10/20 07:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.495 ± 0.443 (0.899) C:72% T:74%**	pCi/L	09/11/20 11:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.686 ± 0.684 (1.40)**	pCi/L	09/14/20 14:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: PZ-32 **Lab ID: 92492815011** Collected: 08/25/20 14:55 Received: 08/27/20 09:47 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	**0.0922 ± 0.224 (0.533) C:92% T:NA**	pCi/L	09/10/20 07:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.248 ± 0.367 (0.791) C:74% T:85%**	pCi/L	09/11/20 11:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.340 ± 0.591 (1.32)**	pCi/L	09/14/20 14:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: PZ-31 **Lab ID: 92492815012** Collected: 08/25/20 16:15 Received: 08/27/20 09:47 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	**0.0240 ± 0.142 (0.383) C:92% T:NA**	pCi/L	09/10/20 07:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.381 ± 0.378 (0.780) C:74% T:85%**	pCi/L	09/11/20 11:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.405 ± 0.520 (1.16)**	pCi/L	09/14/20 14:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: PZ-1D | **Lab ID: 92492815013** | Collected: 08/25/20 16:05 | Received: 08/27/20 09:47 | 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	**0.384 ± 0.294 (0.526) C:92% T:NA**	pCi/L	09/10/20 07:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.393 ± 0.391 (0.805) C:77% T:81%**	pCi/L	09/11/20 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.777 ± 0.685 (1.33)**	pCi/L	09/14/20 14:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: FB-01 **Lab ID: 92492815014** Collected: 08/26/20 08:40 Received: 08/27/20 09:47 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	**0.235 ± 0.231 (0.440) C:92% T:NA**	pCi/L	09/10/20 07:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.381 ± 0.433 (0.910) C:72% T:78%**	pCi/L	09/11/20 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.616 ± 0.664 (1.35)**	pCi/L	09/14/20 14:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: PZ-2D + QC **Lab ID: 92492815015** Collected: 08/26/20 10:52 Received: 08/27/20 09:47 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	**0.244 ± 0.227 (0.409) C:88% T:NA**	pCi/L	09/10/20 07:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.361 ± 0.361 (0.745) C:74% T:82%**	pCi/L	09/11/20 11:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.605 ± 0.588 (1.15)**	pCi/L	09/14/20 14:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: PZ-25 | **Lab ID: 92492815016** | Collected: 08/26/20 13:50 | Received: 08/27/20 09:47 | 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	**0.412 ± 0.325 (0.580) C:81% T:NA**	pCi/L	09/10/20 07:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.538 ± 0.440 (0.884) C:72% T:81%**	pCi/L	09/11/20 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.950 ± 0.765 (1.46)**	pCi/L	09/14/20 14:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: DUP-01 | **Lab ID: 92492815017** | Collected: 08/26/20 00:00 | Received: 08/27/20 09:47 | 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	**0.490 ± 0.285 (0.386) C:91% T:NA**	pCi/L	09/10/20 07:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.636 ± 0.437 (0.844) C:70% T:82%**	pCi/L	09/11/20 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.13 ± 0.722 (1.23)**	pCi/L	09/14/20 14:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Sample: PZ-18 + QC **Lab ID: 92492815018** Collected: 08/27/20 10:05 Received: 08/28/20 11:08 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	**0.00989 ± 0.0860 (0.182) C:91% T:NA**	pCi/L	09/10/20 18:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0840 ± 0.502 (1.14) C:58% T:85%**	pCi/L	09/15/20 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0939 ± 0.588 (1.32)**	pCi/L	09/16/20 10:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

QC Batch: 412345 | Analysis Method: EPA 9320
QC Batch Method: EPA 9320 | Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92492815018

METHOD BLANK: 1994499 | Matrix: Water

Associated Lab Samples: 92492815018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.357 ± 0.355 (0.727) C:71% T:84%	pCi/L	09/15/20 15:02	

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 APP IV SCAN RADS
Pace Project No.: 92492815

QC Batch: 412352
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92492815018

METHOD BLANK: 1994514 Matrix: Water

Associated Lab Samples: 92492815018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.206 ± 0.102 (0.149) C:95% T:NA	pCi/L	09/10/20 19:37	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

QC Batch: 412340
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92492815001, 92492815002, 92492815003, 92492815004, 92492815005, 92492815006, 92492815007, 92492815008, 92492815009, 92492815010, 92492815011, 92492815012, 92492815013, 92492815014, 92492815015, 92492815016, 92492815017

METHOD BLANK: 1994497 Matrix: Water

Associated Lab Samples: 92492815001, 92492815002, 92492815003, 92492815004, 92492815005, 92492815006, 92492815007, 92492815008, 92492815009, 92492815010, 92492815011, 92492815012, 92492815013, 92492815014, 92492815015, 92492815016, 92492815017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.722 ± 0.388 (0.683) C:77% T:80%	pCi/L	09/11/20 11:49	

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.

QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

QC Batch:	412349	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92492815001, 92492815002, 92492815003, 92492815004, 92492815005, 92492815006, 92492815007, 92492815008, 92492815009, 92492815010, 92492815011, 92492815012, 92492815013, 92492815014, 92492815015, 92492815016, 92492815017

METHOD BLANK: 1994508 Matrix: Water

Associated Lab Samples: 92492815001, 92492815002, 92492815003, 92492815004, 92492815005, 92492815006, 92492815007, 92492815008, 92492815009, 92492815010, 92492815011, 92492815012, 92492815013, 92492815014, 92492815015, 92492815016, 92492815017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.124 ± 0.171 (0.355) C:94% T:NA	pCi/L	09/10/20 07:38	

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

QUALIFIERS

Project:	MITCHELL APP IV SCAN RADS
Pace Project No.:	92492815

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.

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 APP IV SCAN RADS
Pace Project No.: 92492815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92492815001	**PZ-23A**	EPA 9315	412349		
92492815002	**DUP-02**	EPA 9315	412349		
92492815003	**PZ-15**	EPA 9315	412349		
92492815004	**PZ-16**	EPA 9315	412349		
92492815005	**PZ-17**	EPA 9315	412349		
92492815006	**PZ-19**	EPA 9315	412349		
92492815007	**PZ-33**	EPA 9315	412349		
92492815008	**PZ-14**	EPA 9315	412349		
92492815009	**PZ-7D**	EPA 9315	412349		
92492815010	**EB-01**	EPA 9315	412349		
92492815011	**PZ-32**	EPA 9315	412349		
92492815012	**PZ-31**	EPA 9315	412349		
92492815013	**PZ-1D**	EPA 9315	412349		
92492815014	**FB-01**	EPA 9315	412349		
92492815015	**PZ-2D + QC**	EPA 9315	412349		
92492815016	**PZ-25**	EPA 9315	412349		
92492815017	**DUP-01**	EPA 9315	412349		
92492815018	**PZ-18 + QC**	EPA 9315	412352		
92492815001	**PZ-23A**	EPA 9320	412340		
92492815002	**DUP-02**	EPA 9320	412340		
92492815003	**PZ-15**	EPA 9320	412340		
92492815004	**PZ-16**	EPA 9320	412340		
92492815005	**PZ-17**	EPA 9320	412340		
92492815006	**PZ-19**	EPA 9320	412340		
92492815007	**PZ-33**	EPA 9320	412340		
92492815008	**PZ-14**	EPA 9320	412340		
92492815009	**PZ-7D**	EPA 9320	412340		
92492815010	**EB-01**	EPA 9320	412340		
92492815011	**PZ-32**	EPA 9320	412340		
92492815012	**PZ-31**	EPA 9320	412340		
92492815013	**PZ-1D**	EPA 9320	412340		
92492815014	**FB-01**	EPA 9320	412340		
92492815015	**PZ-2D + QC**	EPA 9320	412340		
92492815016	**PZ-25**	EPA 9320	412340		
92492815017	**DUP-01**	EPA 9320	412340		
92492815018	**PZ-18 + QC**	EPA 9320	412345		
92492815001	**PZ-23A**	Total Radium Calculation	413734		
92492815002	**DUP-02**	Total Radium Calculation	413734		
92492815003	**PZ-15**	Total Radium Calculation	413734		
92492815004	**PZ-16**	Total Radium Calculation	413734		
92492815005	**PZ-17**	Total Radium Calculation	413734		
92492815006	**PZ-19**	Total Radium Calculation	413734		
92492815007	**PZ-33**	Total Radium Calculation	413735		
92492815008	**PZ-14**	Total Radium Calculation	413735		
92492815009	**PZ-7D**	Total Radium Calculation	413735		
92492815010	**EB-01**	Total Radium Calculation	413735		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL APP IV SCAN RADS
Pace Project No.: 92492815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92492815011	**PZ-32**	Total Radium Calculation	413735		
92492815012	**PZ-31**	Total Radium Calculation	413735		
92492815013	**PZ-1D**	Total Radium Calculation	413735		
92492815014	**FB-01**	Total Radium Calculation	413735		
92492815015	**PZ-2D + QC**	Total Radium Calculation	413735		
92492815016	**PZ-25**	Total Radium Calculation	413735		
92492815017	**DUP-01**	Total Radium Calculation	413735		
92492815018	**PZ-18 + QC**	Total Radium Calculation	414090		

Pace Analytical

Sample Condition Upon Receipt

WO# : 92492815

92492815

Client Name: G A Power

Proj. Due Date:
Proj. Name:

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

Tracking #: 8121 9394 4915 / 8121 9394 4890 / 8121 9394 4926 / 8121 9394 4901

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☐ yes ☐ no

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

Thermometer Used 214 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 4.1/5.8/3.3/2.5 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 9/27/2008

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: ______ Date/Time: ______

Comments/ Resolution: ______

Project Manager Review: ______ **Date:** ______

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)

F-ALLC003rev.3, 11September2006

Pace Analytical	Document Name: Bottle Identification Form (BIF)	Document Issued: March 14, 2019
		Page 1 of 1
	Document No.: F-CAR-CS-043-Rev.00	Issuing Authority: Pace Carolinas Quality Office

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

Project #

WO#:92492815

PM: KLH1 Due Date: 09/11/20

CLIENT: GA-GA Power

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

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

Matrix	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)	BPIN	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)
	1		1				1																		2			
	2		1				1																		2			
	3		1				1																		2			
	4		1				1																		2			
	5		1				1																		2			
	6		1				1																		2			
	7		1				1																		2			
	8		1				1																		2			
	9		1				1																		2			
	10		1				1																		2			
	11		1				1																		2			
	12		1				1																					

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 O
Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical	Document Name: Bottle Identification Form (BIF)	Document Issued: March 14, 2019
		Page 1 of 1
	Document No.: F-CAR-CS-043-Rev.00	Issuing Authority: Pace Carolinas Quality Office

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

Project # **WO#:92492815**

PM: KLH1 Due Date: 09/11/20

CLIENT: GA-GA Power

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

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

Matrix	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)	BPIN	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)
	1		1				1																					
	2		1				1																					
	3		1				1																					
	4		1				1																					
	5		1				1																					
	6																											
	7																											
	8																											
	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	Lo

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

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:
Company: Georgia Power
Address: 1075 Big Shanty Road
Kennesaw, GA 30144
Email: rhonda.quinn@amec.com
Phone: (770)421-3516 Fax:
Requested Due Date: Standard

Section B
Required Project Information:
Report To: Rhonda Quinn
Copy To:
Purchase Order #:
Project Name: Mitchell App IV Scan
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@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

Requested Analysis Filtered (Y/N)

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	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	300.0 - F	App IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	92492815
1	PZ-23A					8/26/20	1010		4	1		3							X	X	X		pH=6.64
2	DUP-02						--		4	1		3							X	X	X		pH=6.64
3	PZ-15						1225		4	1		3							X	X	X		pH=7.08
4	PZ-16						1410		4	1		3							X	X	X		pH=7.18
5	PZ-17						1545		4	1		3							X	X	X		pH=6.98
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Daniel L Howard / Wood	8/26/20	1800	[signature]	8/27/20	0947	4.1	Y	Y	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Daniel Howard
SIGNATURE of SAMPLER: Daniel Howard
DATE Signed: 8/26/20

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:	Georgia Power
Address:	1075 Big Shanty Road
	Kennesaw, GA 30144
Email:	rhonda.quinn@amec.com
Phone:	(770)421-3516 Fax
Requested Due Date:	Standard

Section B
Required Project Information:

Report To:	Rhonda Quinn
Copy To:	
Purchase Order #:	
Project Name:	Mitchell App IV Scan
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	kevin.herring@pacelabs.com,
Pace Profile #:	10834

Regulatory Agency

State / Location: GA

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

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

Requested Analysis Filtered (Y/N)

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	300.0 - F	App IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	92492415
1	PZ-19	WT	G			8/24/20	1535		4	1		3							X	X	X		pH=6.68
2	PZ-33	WT	G				1026		4	1		3							X	X	X		pH=6.99
3	PZ-14	WT	G				1410		4	1		3							X	X	X		pH=6.98
4	PZ-7D	WT	G			↓	1535		4	1		3							X	X	X		pH=7.01
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	David Howard/Wood	8/24/20	1800	Charles Fowler	8/27/20	0947	3.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: David Howard

DATE Signed: 8/26/20

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:

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	Kennesaw, GA 30144
Email:	rhonda.quinn@amec.com
Phone:	(770)421-3516
Fax:	
Requested Due Date:	Standard

Section B
Required Project Information:

Report To:	Rhonda Quinn
Copy To:	
Purchase Order #:	
Project Name:	Mitchell App IV Scan
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	kevin.herring@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	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	300.0 - F	App IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	42492815
1	EB-01	WT	G			8/26/20	1445		4	1		3							X	X	X		
2	PZ-32	WT	G				1455		4	1		3							X	X	X		pH=7.53
3	PZ-31	WT	G				1615		4	1		3							X	X	X		pH=7.14
4	PZ-1D	WT	G				1605		4	1		3							X	X	X		pH=7.49
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Daniel Howard / Wood	8/26/20	1800	Charles Hurls	8/27/20	0947	3.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed: 8/26/20

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

:tion A
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npany: Georgia Power
dress: 1075 Big Shanty Road
nnesaw, GA 30144
ail: rhonda.quinn@amec.com
one: (770)421-3516 Fax
quested Due Date: Standard

Section B
Required Project Information:
Report To: Rhonda Quinn
Copy To:
Purchase Order #:
Project Name: Mitchell App IV Scan
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@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

Requested Analysis Filtered (Y/N)

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	Analyses Test Y/N	300.0 - F	App IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	42442815
1	FB-01	WT	G			8/26/20	0840		4	1		3							X	X	X		
2	PZ-2D + QC	WT	G			↓	1052		6	1		5							X	X	X		pH=7.97
3	PZ-25	WT	G			↓	1350		4	1		3							X	X	X		pH=7.09
4	DUP-01	WT	G			↓	--		4	1		3							X	X	X		pH=7.09
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	8/26/20	1800	Charles Hunter	8/27/20	0945	2.5	Y	Y	X

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Daniel Howard
SIGNATURE of SAMPLER: Daniel Howard
DATE Signed: 8/26/20

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

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:	Georgia Power	Report To:	Rhonda Quinn	Attention:	
Address:	1075 Big Shanty Road	Copy To:		Company Name:	
	nesaw, GA 30144			Address:	
Email:	rhonda.quinn@amec.com	Purchase Order #:		Pace Quote:	
Phone:	(770)421-3516 Fax:	Project Name:	Mitchell App IV Scan	Pace Project Manager:	kevin.herring@pacelabs.com,
Requested Due Date:	Standard	Project #:		Pace Profile #:	10834

Regulatory Agency	
State / Location	GA

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

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

ITEM #	SAMPLE ID	MATRIX CODE	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	300.0 - F	App IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	PZ-18 + QC	WT	G			8/26/20	1005		6	1		4							X	X	X		pH=6.88
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Requested Analysis Filtered (Y/N)

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)
Lab QC For radium	[signature] / WooD	8/28/20	11:08	[signature]	8/28/20	1108	2.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ever Guillen

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/27/20

Quality Control Sample Performance Assessment

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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	LAL
Date:	9/9/2020
Worklist:	55957
Matrix:	DW

Method Blank Assessment	
MB Sample ID	1994508
MB concentration:	0.124
M/B Counting Uncertainty:	0.170
MB MDC:	0.355
MB Numerical Performance Indicator:	1.43
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS55957	LCSD55957
Count Date:	9/10/2020	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.045	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.506	
Target Conc. (pCi/L, g, F):	4.751	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	3.947	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.714	
Numerical Performance Indicator:	-2.20	
Percent Recovery:	83.08%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	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.:	92492844001	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92492844001DUP	
Sample Result (pCi/L, g, F):	0.135	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.203	
Sample Duplicate Result (pCi/L, g, F):	0.052	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.177	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	0.603	92492844001
Duplicate RPD:	88.26%	92492844001DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicete Status vs RPD:	Fail***	
% RPD Limit:	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 9/10/2020

LAM 9/10/2020

Cu 9.10.20

Pace Analytical
www.pacelabs.com

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	LAL
Date:	9/9/2020
Worklist:	55957
Matrix:	DW

Method Blank Assessment	
MB Sample ID	1994508
MB concentration:	0.124
M/B Counting Uncertainty:	0.170
MB MDC:	0.355
MB Numerical Performance Indicator:	1.43
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS55957	LCSD55957
Count Date:	9/10/2020	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.045	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.506	
Target Conc. (pCi/L, g, F):	4.751	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	3.947	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.714	
Numerical Performance Indicator:	-2.20	
Percent Recovery:	83.08%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment		
Sample I.D.:	92492815015	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92492815015DUP	
Sample Result (pCi/L, g, F):	0.244	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.224	
Sample Duplicate Result (pCi/L, g, F):	-0.050	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.203	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	1.904	92492815015
Duplicate RPD:	303.91%	92492815015DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	25%	

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:		

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 9/10/2020

LAM 9/10/2020

[signature] 9-10-20

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	LAL
Date:	9/10/2020
Worklist:	55959
Matrix:	DW

Method Blank Assessment	
MB Sample ID	1994514
MB concentration:	0.206
M/B Counting Uncertainty:	0.098
MB MDC:	0.149
MB Numerical Performanca Indicator:	4.13
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS55959	LCSD55959
Count Date:	9/11/2020	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.045	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.507	
Target Conc. (pCi/L, g, F):	4.740	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	4.372	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.792	
Numerical Performance Indicator:	-0.91	
Percent Recovery:	92.23%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment		
Sample I.D.:	92492559006	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92492559006DUP	
Sample Result (pCi/L, g, F):	0.288	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.138	
Sample Duplicate Result (pCi/L, g, F):	0.063	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.153	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	2.147	92492559006
Duplicate RPD:	128.44%	92492559006DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	~~Fail***~~	
% RPD Limit:	25%	

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:		

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:

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

***~~Batch must be re-prepped due to unacceptable precision.~~ N/A wm 9/11/2020

JAM 9/11/2020

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	LAL
Date:	9/10/2020
Worklist:	55959
Matrix:	DW

Method Blank Assessment	
MB Sample ID	1994514
MB concentration:	0.206
M/B Counting Uncertainty:	0.098
MB MDC:	0.149
MB Numerical Performance Indicator:	4.13
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS55959	LCSD55959
Count Date:	9/11/2020	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.045	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.507	
Target Conc. (pCi/L, g, F):	4.740	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	4.372	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.792	
Numerical Performance Indicator:	-0.91	
Percent Recovery:	92.23%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment		
Sample I.D.:	92492559007	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92492559007DUP	
Sample Result (pCi/L, g, F):	0.269	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.118	
Sample Duplicate Result (pCi/L, g, F):	0.234	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.201	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	0.291	92492559007
Duplicate RPD:	13.77%	92492559007DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

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:		

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

LAm 9/11/2020

Quality Control Sample Performance Assessment

Pace Analytical
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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	9/9/2020
Worklist:	55952
Matrix:	WT

Method Blank Assessment	
MB Sample ID	1994497
MB concentration:	0.722
M/B 2 Sigma CSU:	0.388
MB MDC:	0.683
MB Numerical Performance Indicator:	3.65
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS55952	LCSD55952
Count Date:	9/11/2020	
Spike I.D.:	20-030	
Decay Corrected Spike Concentration (pCi/mL):	38.447	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.820	
Target Conc. (pCi/L, g, F):	4.686	
Uncertainty (Calculated):	0.230	
Result (pCi/L, g, F):	4.304	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.066	
Numerical Performance Indicator:	-0.69	
Percent Recovery:	91.85%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:	92492815015	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92492815015DUP	
Sample Result (pCi/L, g, F):	0.361	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.361	
Sample Duplicate Result (pCi/L, g, F):	0.093	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.307	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	1.107	92492815015
Duplicate RPD:	~~117.83%~~	92492815015DUP
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	~~Fail***~~	
% RPD Limit:	36%	

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:		

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.

JJ7
9-14-20

OW 9/14/2020

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Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	9/9/2020
Worklist:	55954
Matrix:	WT

Method Blank Assessment	
MB Sample ID	1994499
MB concentration:	0.357
M/B 2 Sigma CSU:	0.355
MB MDC:	0.727
MB Numerical Performance Indicator:	1.97
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS55954	LCSD55954
Count Date:	9/15/2020	9/15/2020
Spike I.D.:	20-030	20-030
Decay Corrected Spike Concentration (pCi/mL):	38.394	38.394
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.808	0.829
Target Conc. (pCi/L, g, F):	4.752	4.632
Uncertainty (Calculated):	0.233	0.227
Result (pCi/L, g, F):	5.042	4.838
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.200	1.149
Numerical Performance Indicator:	0.46	0.34
Percent Recovery:	106.10%	104.44%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS55954	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD55954	
Sample Result (pCi/L, g, F):	5.042	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.200	
Sample Duplicate Result (pCi/L, g, F):	4.838	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.149	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.241	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.57%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		

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:

JJY 9-16-20

Au 9.16.20

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

June 03, 2021

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

RE: Project: MITCHELL CCR
Pace Project No.: 92499073

Dear Michelle Barker:

Enclosed are the analytical results for sample(s) received by the laboratory between October 07, 2020 and October 08, 2020. 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,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

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 CCR
Pace Project No.:	92499073

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
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92499073001	**EB-01**	Water	10/06/20 10:45	10/07/20 09:37
92499073002	**PZ-2D**	Water	10/06/20 12:20	10/07/20 09:37
92499073003	**FB-01**	Water	10/06/20 12:55	10/07/20 09:37
92499073004	**PZ-32**	Water	10/06/20 15:00	10/07/20 09:37
92499073005	**PZ-1D**	Water	10/06/20 12:00	10/07/20 09:37
92499073006	**PZ-31**	Water	10/06/20 14:55	10/07/20 09:37
92499073007	**PZ-14**	Water	10/06/20 11:30	10/07/20 09:37
92499073008	**PZ-23A**	Water	10/06/20 14:25	10/07/20 09:37
92499073009	**PZ-16**	Water	10/06/20 16:15	10/07/20 09:37
92499073010	**PZ-25**	Water	10/07/20 09:50	10/08/20 09:40
92499073011	**FD-02**	Water	10/07/20 00:00	10/08/20 09:40
92499073012	**PZ-7D**	Water	10/07/20 12:30	10/08/20 09:40
92499073013	**PZ-15**	Water	10/07/20 14:45	10/08/20 09:40
92499073014	**PZ-19**	Water	10/07/20 15:58	10/08/20 09:40
92499073015	**FD-01**	Water	10/07/20 00:00	10/08/20 09:40
92499073016	**PZ-17**	Water	10/07/20 10:35	10/08/20 09:40
92499073017	**PZ-18**	Water	10/07/20 12:05	10/08/20 09:40
92499073018	**PZ-33**	Water	10/07/20 14:25	10/08/20 09:40

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

SAMPLE ANALYTE COUNT

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92499073001	**EB-01**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073002	**PZ-2D**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073003	**FB-01**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073004	**PZ-32**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073005	**PZ-1D**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073006	**PZ-31**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073007	**PZ-14**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073008	**PZ-23A**	EPA 6010D	KH	1
		EPA 6020B	CW1	10

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SAMPLE ANALYTE COUNT

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073009	**PZ-16**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073010	**PZ-25**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073011	**FD-02**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073012	**PZ-7D**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073013	**PZ-15**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073014	**PZ-19**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073015	**FD-01**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1

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SAMPLE ANALYTE COUNT

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073016	**PZ-17**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92499073017	**PZ-18**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92499073018	**PZ-33**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3

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SUMMARY OF DETECTION

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92499073001	**EB-01**					
EPA 6020B	Antimony	0.00048J	mg/L	0.0030	10/07/20 20:46	
EPA 6020B	Barium	0.00079J	mg/L	0.010	10/07/20 20:46	
EPA 6020B	Boron	0.0087J	mg/L	0.10	10/07/20 20:46	
92499073002	**PZ-2D**					
	Performed by	CUSTOMER			10/08/20 16:12	
	pH	8.72	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	22.7	mg/L	1.0	10/08/20 21:57	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	10/07/20 20:52	
EPA 6020B	Barium	0.0039J	mg/L	0.010	10/07/20 20:52	
EPA 6020B	Boron	0.018J	mg/L	0.10	10/07/20 20:52	
EPA 6020B	Chromium	0.0065J	mg/L	0.010	10/07/20 20:52	
EPA 6020B	Lithium	0.00099J	mg/L	0.030	10/07/20 20:52	
EPA 6020B	Molybdenum	0.00069J	mg/L	0.010	10/07/20 20:52	
SM 2540C-2011	Total Dissolved Solids	81.0	mg/L	10.0	10/07/20 14:57	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	10/09/20 18:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.073J	mg/L	0.10	10/09/20 18:14	
EPA 300.0 Rev 2.1 1993	Sulfate	3.1	mg/L	1.0	10/09/20 18:14	
92499073004	**PZ-32**					
	Performed by	CUSTOMER			10/08/20 16:12	
	pH	7.27	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	62.8	mg/L	1.0	10/08/20 22:14	
EPA 6020B	Barium	0.015	mg/L	0.010	10/12/20 16:50	
EPA 6020B	Boron	0.015J	mg/L	0.10	10/12/20 16:50	
EPA 6020B	Chromium	0.00072J	mg/L	0.010	10/12/20 16:50	
SM 2540C-2011	Total Dissolved Solids	169	mg/L	10.0	10/07/20 14:57	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	10/09/20 20:13	
EPA 300.0 Rev 2.1 1993	Sulfate	1.9	mg/L	1.0	10/09/20 20:13	
92499073005	**PZ-1D**					
	Performed by	CUSTOMER			10/08/20 16:12	
	pH	7.35	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	50.5	mg/L	1.0	10/08/20 22:19	
EPA 6020B	Antimony	0.0021J	mg/L	0.0030	10/12/20 17:39	B
EPA 6020B	Barium	0.015	mg/L	0.010	10/12/20 17:39	
EPA 6020B	Boron	0.015J	mg/L	0.10	10/12/20 17:39	
EPA 6020B	Chromium	0.0021J	mg/L	0.010	10/12/20 17:39	
EPA 6020B	Lead	0.000066J	mg/L	0.0050	10/12/20 17:39	
EPA 6020B	Molybdenum	0.00090J	mg/L	0.010	10/12/20 17:39	
SM 2540C-2011	Total Dissolved Solids	153	mg/L	10.0	10/07/20 14:57	
EPA 300.0 Rev 2.1 1993	Chloride	3.0	mg/L	1.0	10/09/20 20:29	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	10/09/20 20:29	
92499073006	**PZ-31**					
	Performed by	CUSTOMER			10/08/20 16:12	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92499073006	**PZ-31**					
	pH	7.01	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	98.8	mg/L	1.0	10/08/20 22:23	
EPA 6020B	Antimony	0.00045J	mg/L	0.0030	10/12/20 17:45	B
EPA 6020B	Barium	0.0075J	mg/L	0.010	10/12/20 17:45	
EPA 6020B	Boron	0.011J	mg/L	0.10	10/12/20 17:45	
EPA 6020B	Chromium	0.0013J	mg/L	0.010	10/12/20 17:45	
SM 2540C-2011	Total Dissolved Solids	254	mg/L	10.0	10/07/20 14:58	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	10/09/20 20:44	
EPA 300.0 Rev 2.1 1993	Sulfate	0.98J	mg/L	1.0	10/09/20 20:44	
92499073007	**PZ-14**					
	Performed by	CUSTOMER			10/08/20 16:12	
	pH	7.01	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	111	mg/L	1.0	10/08/20 22:27	
EPA 6020B	Barium	0.016	mg/L	0.010	10/12/20 17:51	
EPA 6020B	Boron	0.026J	mg/L	0.10	10/12/20 17:51	
EPA 6020B	Chromium	0.00098J	mg/L	0.010	10/12/20 17:51	
SM 2540C-2011	Total Dissolved Solids	241	mg/L	10.0	10/07/20 14:58	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	10/09/20 20:59	
EPA 300.0 Rev 2.1 1993	Sulfate	11.0	mg/L	1.0	10/09/20 20:59	
92499073008	**PZ-23A**					
	Performed by	CUSTOMER			10/08/20 16:12	
	pH	6.78	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	144	mg/L	1.0	10/08/20 22:32	
EPA 6020B	Barium	0.037	mg/L	0.010	10/12/20 17:56	
EPA 6020B	Boron	0.16	mg/L	0.10	10/12/20 17:56	
EPA 6020B	Chromium	0.0015J	mg/L	0.010	10/12/20 17:56	
EPA 6020B	Cobalt	0.00067J	mg/L	0.0050	10/12/20 17:56	
EPA 6020B	Lead	0.000047J	mg/L	0.0050	10/12/20 17:56	
EPA 6020B	Lithium	0.00097J	mg/L	0.030	10/12/20 17:56	
EPA 6020B	Selenium	0.0027J	mg/L	0.010	10/12/20 17:56	
SM 2540C-2011	Total Dissolved Solids	462	mg/L	10.0	10/07/20 14:58	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	10/09/20 21:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	10/09/20 21:15	
EPA 300.0 Rev 2.1 1993	Sulfate	71.2	mg/L	1.0	10/09/20 21:15	
92499073009	**PZ-16**					
	Performed by	CUSTOMER			10/08/20 16:12	
	pH	7.24	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	84.0	mg/L	1.0	10/08/20 22:36	
EPA 6020B	Barium	0.034	mg/L	0.010	10/12/20 18:02	
EPA 6020B	Boron	0.19	mg/L	0.10	10/12/20 18:02	
EPA 6020B	Chromium	0.0011J	mg/L	0.010	10/12/20 18:02	
SM 2540C-2011	Total Dissolved Solids	261	mg/L	10.0	10/07/20 14:58	
EPA 300.0 Rev 2.1 1993	Chloride	6.4	mg/L	1.0	10/09/20 22:32	

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SUMMARY OF DETECTION

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92499073009	**PZ-16**					
EPA 300.0 Rev 2.1 1993	Sulfate	42.4	mg/L	1.0	10/09/20 22:32	
92499073010	**PZ-25**					
	Performed by	CUSTOME R			10/08/20 16:12	
	pH	6.95	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	84.2	mg/L	1.0	10/09/20 19:48	
EPA 6020B	Barium	0.11	mg/L	0.010	10/12/20 18:44	
EPA 6020B	Boron	0.18	mg/L	0.10	10/12/20 18:44	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	10/12/20 18:44	
EPA 6020B	Lithium	0.0063J	mg/L	0.030	10/12/20 18:44	
EPA 6020B	Thallium	0.00027J	mg/L	0.0010	10/12/20 18:44	
SM 2540C-2011	Total Dissolved Solids	280	mg/L	10.0	10/08/20 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	10/10/20 03:41	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	10/10/20 03:41	
EPA 300.0 Rev 2.1 1993	Sulfate	38.1	mg/L	1.0	10/10/20 03:41	
92499073011	**FD-02**					
EPA 6010D	Calcium	85.7	mg/L	1.0	10/09/20 19:52	
EPA 6020B	Barium	0.11	mg/L	0.010	10/12/20 18:50	
EPA 6020B	Boron	0.19	mg/L	0.10	10/12/20 18:50	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	10/12/20 18:50	
EPA 6020B	Lithium	0.0062J	mg/L	0.030	10/12/20 18:50	
EPA 6020B	Thallium	0.00027J	mg/L	0.0010	10/12/20 18:50	
SM 2540C-2011	Total Dissolved Solids	288	mg/L	10.0	10/08/20 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	10/10/20 04:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	10/10/20 04:27	
EPA 300.0 Rev 2.1 1993	Sulfate	38.3	mg/L	1.0	10/10/20 04:27	
92499073012	**PZ-7D**					
	Performed by	CUSTOME R			10/08/20 16:12	
	pH	6.98	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	109	mg/L	1.0	10/09/20 19:57	
EPA 6020B	Barium	0.0061J	mg/L	0.010	10/12/20 18:55	
EPA 6020B	Boron	0.20	mg/L	0.10	10/12/20 18:55	
EPA 6020B	Chromium	0.0014J	mg/L	0.010	10/12/20 18:55	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	10/12/20 18:55	
SM 2540C-2011	Total Dissolved Solids	334	mg/L	10.0	10/08/20 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	10/10/20 04:43	
EPA 300.0 Rev 2.1 1993	Sulfate	48.9	mg/L	1.0	10/10/20 04:43	
92499073013	**PZ-15**					
	Performed by	CUSTOME R			10/08/20 16:12	
	pH	7.11	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	93.5	mg/L	1.0	10/09/20 20:01	
EPA 6020B	Barium	0.049	mg/L	0.010	10/12/20 19:01	
EPA 6020B	Boron	0.19	mg/L	0.10	10/12/20 19:01	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	10/12/20 19:01	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92499073013	**PZ-15**					
EPA 6020B	Thallium	0.00022J	mg/L	0.0010	10/12/20 19:01	
SM 2540C-2011	Total Dissolved Solids	336	mg/L	10.0	10/08/20 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	6.6	mg/L	1.0	10/10/20 04:58	
EPA 300.0 Rev 2.1 1993	Sulfate	80.7	mg/L	1.0	10/10/20 04:58	
92499073014	**PZ-19**					
	Performed by	CUSTOMER			10/08/20 16:12	
	pH	6.78	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	144	mg/L	1.0	10/09/20 20:06	
EPA 6020B	Barium	0.054	mg/L	0.010	10/12/20 19:07	
EPA 6020B	Boron	0.52	mg/L	0.10	10/12/20 19:07	
EPA 6020B	Lead	0.000042J	mg/L	0.0050	10/12/20 19:07	
EPA 6020B	Lithium	0.013J	mg/L	0.030	10/12/20 19:07	
EPA 6020B	Molybdenum	0.0019J	mg/L	0.010	10/12/20 19:07	
EPA 6020B	Selenium	0.0035J	mg/L	0.010	10/12/20 19:07	
EPA 6020B	Thallium	0.00070J	mg/L	0.0010	10/12/20 19:07	
SM 2540C-2011	Total Dissolved Solids	492	mg/L	10.0	10/08/20 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	10/10/20 05:13	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	10/10/20 05:13	
EPA 300.0 Rev 2.1 1993	Sulfate	83.3	mg/L	1.0	10/10/20 05:13	
92499073015	**FD-01**					
EPA 6010D	Calcium	138	mg/L	1.0	10/09/20 20:19	
EPA 6020B	Barium	0.053	mg/L	0.010	10/13/20 17:15	
EPA 6020B	Boron	0.55	mg/L	0.10	10/13/20 17:15	
EPA 6020B	Lithium	0.014J	mg/L	0.030	10/13/20 17:15	
EPA 6020B	Molybdenum	0.0019J	mg/L	0.010	10/13/20 17:15	
EPA 6020B	Selenium	0.0029J	mg/L	0.010	10/13/20 17:15	
EPA 6020B	Thallium	0.00068J	mg/L	0.0010	10/13/20 17:15	
SM 2540C-2011	Total Dissolved Solids	496	mg/L	10.0	10/08/20 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	10/10/20 05:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.062J	mg/L	0.10	10/10/20 05:29	
EPA 300.0 Rev 2.1 1993	Sulfate	84.0	mg/L	1.0	10/10/20 05:29	
92499073016	**PZ-17**					
	Performed by	CUSTOMER			10/08/20 16:12	
	pH	7.04	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	112	mg/L	1.0	10/09/20 20:24	
EPA 6020B	Barium	0.074	mg/L	0.010	10/13/20 17:21	
EPA 6020B	Boron	0.30	mg/L	0.10	10/13/20 17:21	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	10/13/20 17:21	
EPA 6020B	Thallium	0.00022J	mg/L	0.0010	10/13/20 17:21	
SM 2540C-2011	Total Dissolved Solids	392	mg/L	10.0	10/08/20 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	10/13/20 22:47	
EPA 300.0 Rev 2.1 1993	Sulfate	89.1	mg/L	1.0	10/13/20 22:47	

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SUMMARY OF DETECTION

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92499073017	**PZ-18**					
	Performed by	CUSTOMER			10/08/20 16:12	
	pH	6.91	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	129	mg/L	1.0	10/09/20 20:28	
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	10/13/20 17:44	
EPA 6020B	Barium	0.023	mg/L	0.010	10/13/20 17:44	
EPA 6020B	Boron	0.39	mg/L	0.10	10/13/20 17:44	
EPA 6020B	Lead	0.000042J	mg/L	0.0050	10/13/20 17:44	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	10/13/20 17:44	
SM 2540C-2011	Total Dissolved Solids	425	mg/L	10.0	10/08/20 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	10/13/20 23:01	
EPA 300.0 Rev 2.1 1993	Sulfate	87.3	mg/L	1.0	10/13/20 23:01	
92499073018	**PZ-33**					
	Performed by	CUSTOMER			10/08/20 16:12	
	pH	7.04	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	94.7	mg/L	1.0	10/09/20 20:33	
EPA 6020B	Antimony	0.00037J	mg/L	0.0030	10/13/20 17:49	
EPA 6020B	Barium	0.048	mg/L	0.010	10/13/20 17:49	
EPA 6020B	Boron	0.35	mg/L	0.10	10/13/20 17:49	
SM 2540C-2011	Total Dissolved Solids	337	mg/L	10.0	10/08/20 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	10/13/20 23:15	
EPA 300.0 Rev 2.1 1993	Sulfate	54.6	mg/L	1.0	10/13/20 23:15	

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: EB-01 **Lab ID: 92499073001** Collected: 10/06/20 10:45 Received: 10/07/20 09:37 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	0.070	1	10/08/20 14:00	10/08/20 21:52	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00048J**	mg/L	0.0030	0.00028	1	10/07/20 15:28	10/07/20 20:46	7440-36-0	
Barium	**0.00079J**	mg/L	0.010	0.00071	1	10/07/20 15:28	10/07/20 20:46	7440-39-3	
Boron	**0.0087J**	mg/L	0.10	0.0052	1	10/07/20 15:28	10/07/20 20:46	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/07/20 15:28	10/07/20 20:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/07/20 15:28	10/07/20 20:46	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/07/20 15:28	10/07/20 20:46	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	10/07/20 15:28	10/07/20 20:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/07/20 15:28	10/07/20 20:46	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/07/20 15:28	10/07/20 20:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/07/20 15:28	10/07/20 20:46	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 19:42	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		10/07/20 14:57		
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		10/09/20 18:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/09/20 18:00	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/09/20 18:00	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-2D **Lab ID: 92499073002** Collected: 10/06/20 12:20 Received: 10/07/20 09:37 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		10/08/20 16:12		
pH	**8.72**	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**22.7**	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 21:57	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0013J**	mg/L	0.0030	0.00028	1	10/07/20 15:28	10/07/20 20:52	7440-36-0	
Barium	**0.0039J**	mg/L	0.010	0.00071	1	10/07/20 15:28	10/07/20 20:52	7440-39-3	
Boron	**0.018J**	mg/L	0.10	0.0052	1	10/07/20 15:28	10/07/20 20:52	7440-42-8	
Chromium	**0.0065J**	mg/L	0.010	0.00055	1	10/07/20 15:28	10/07/20 20:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/07/20 15:28	10/07/20 20:52	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/07/20 15:28	10/07/20 20:52	7439-92-1	
Lithium	**0.00099J**	mg/L	0.030	0.00081	1	10/07/20 15:28	10/07/20 20:52	7439-93-2	
Molybdenum	**0.00069J**	mg/L	0.010	0.00069	1	10/07/20 15:28	10/07/20 20:52	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/07/20 15:28	10/07/20 20:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/07/20 15:28	10/07/20 20:52	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 19:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**81.0**	mg/L	10.0	10.0	1		10/07/20 14:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.3**	mg/L	1.0	0.60	1		10/09/20 18:14	16887-00-6	
Fluoride	**0.073J**	mg/L	0.10	0.050	1		10/09/20 18:14	16984-48-8	
Sulfate	**3.1**	mg/L	1.0	0.50	1		10/09/20 18:14	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: FB-01 **Lab ID: 92499073003** Collected: 10/06/20 12:55 Received: 10/07/20 09:37 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	0.070	1	10/08/20 14:00	10/08/20 22:10	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	0.00028	1	10/09/20 14:00	10/12/20 16:44	7440-36-0	
Barium	ND	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 16:44	7440-39-3	
Boron	ND	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 16:44	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 16:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 16:44	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 16:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 16:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 16:44	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 16:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 16:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 19:46	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		10/07/20 14:57		
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		10/09/20 18:29	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/09/20 18:29	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/09/20 18:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-32 **Lab ID: 92499073004** Collected: 10/06/20 15:00 Received: 10/07/20 09:37 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		10/08/20 16:12		
pH	**7.27**	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**62.8**	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:14	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	0.00028	1	10/09/20 14:00	10/12/20 16:50	7440-36-0	
Barium	**0.015**	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 16:50	7440-39-3	
Boron	**0.015J**	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 16:50	7440-42-8	
Chromium	**0.00072J**	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 16:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 16:50	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 16:50	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 16:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 16:50	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 16:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 16:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 19:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**169**	mg/L	10.0	10.0	1		10/07/20 14:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.3**	mg/L	1.0	0.60	1		10/09/20 20:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/09/20 20:13	16984-48-8	
Sulfate	**1.9**	mg/L	1.0	0.50	1		10/09/20 20:13	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-1D **Lab ID: 92499073005** Collected: 10/06/20 12:00 Received: 10/07/20 09:37 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		10/08/20 16:12		
pH	**7.35**	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**50.5**	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:19	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0021J**	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 17:39	7440-36-0	B
Barium	**0.015**	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 17:39	7440-39-3	
Boron	**0.015J**	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 17:39	7440-42-8	
Chromium	**0.0021J**	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 17:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 17:39	7440-48-4	
Lead	**0.000066J**	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 17:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 17:39	7439-93-2	
Molybdenum	**0.00090J**	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 17:39	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 17:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 17:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 19:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**153**	mg/L	10.0	10.0	1		10/07/20 14:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.0**	mg/L	1.0	0.60	1		10/09/20 20:29	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/09/20 20:29	16984-48-8	
Sulfate	**2.4**	mg/L	1.0	0.50	1		10/09/20 20:29	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-31 **Lab ID: 92499073006** Collected: 10/06/20 14:55 Received: 10/07/20 09:37 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		10/08/20 16:12		
pH	**7.01**	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**98.8**	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:23	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00045J**	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 17:45	7440-36-0	B
Barium	**0.0075J**	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 17:45	7440-39-3	
Boron	**0.011J**	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 17:45	7440-42-8	
Chromium	**0.0013J**	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 17:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 17:45	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 17:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 17:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 17:45	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 17:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 17:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 19:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**254**	mg/L	10.0	10.0	1		10/07/20 14:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.4**	mg/L	1.0	0.60	1		10/09/20 20:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/09/20 20:44	16984-48-8	
Sulfate	**0.98J**	mg/L	1.0	0.50	1		10/09/20 20:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-14 **Lab ID: 92499073007** Collected: 10/06/20 11:30 Received: 10/07/20 09:37 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		10/08/20 16:12		
pH	**7.01**	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**111**	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:27	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	0.00028	1	10/09/20 14:00	10/12/20 17:51	7440-36-0	B
Barium	**0.016**	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 17:51	7440-39-3	
Boron	**0.026J**	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 17:51	7440-42-8	
Chromium	**0.00098J**	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 17:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 17:51	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 17:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 17:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 17:51	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 17:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 17:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 20:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**241**	mg/L	10.0	10.0	1		10/07/20 14:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.4**	mg/L	1.0	0.60	1		10/09/20 20:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/09/20 20:59	16984-48-8	
Sulfate	**11.0**	mg/L	1.0	0.50	1		10/09/20 20:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-23A **Lab ID: 92499073008** Collected: 10/06/20 14:25 Received: 10/07/20 09:37 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		10/08/20 16:12		
pH	**6.78**	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**144**	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:32	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	0.00028	1	10/09/20 14:00	10/12/20 17:56	7440-36-0	
Barium	**0.037**	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 17:56	7440-39-3	
Boron	**0.16**	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 17:56	7440-42-8	
Chromium	**0.0015J**	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 17:56	7440-47-3	
Cobalt	**0.00067J**	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 17:56	7440-48-4	
Lead	**0.000047J**	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 17:56	7439-92-1	
Lithium	**0.00097J**	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 17:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 17:56	7439-98-7	
Selenium	**0.0027J**	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 17:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 17:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 20:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**462**	mg/L	10.0	10.0	1		10/07/20 14:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.0**	mg/L	1.0	0.60	1		10/09/20 21:15	16887-00-6	
Fluoride	**0.052J**	mg/L	0.10	0.050	1		10/09/20 21:15	16984-48-8	
Sulfate	**71.2**	mg/L	1.0	0.50	1		10/09/20 21:15	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-16 | **Lab ID: 92499073009** | Collected: 10/06/20 16:15 | Received: 10/07/20 09:37 | 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		10/08/20 16:12		
pH	**7.24**	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**84.0**	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:36	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	0.00028	1	10/09/20 14:00	10/12/20 18:02	7440-36-0	
Barium	**0.034**	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 18:02	7440-39-3	
Boron	**0.19**	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 18:02	7440-42-8	
Chromium	**0.0011J**	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 18:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 18:02	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 18:02	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 18:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 18:02	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 18:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 18:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 20:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**261**	mg/L	10.0	10.0	1		10/07/20 14:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.4**	mg/L	1.0	0.60	1		10/09/20 22:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/09/20 22:32	16984-48-8	
Sulfate	**42.4**	mg/L	1.0	0.50	1		10/09/20 22:32	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-25 | **Lab ID: 92499073010** | Collected: 10/07/20 09:50 | Received: 10/08/20 09:40 | 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		10/08/20 16:12		
pH	**6.95**	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**84.2**	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 19:48	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	0.00028	1	10/09/20 14:00	10/12/20 18:44	7440-36-0	
Barium	**0.11**	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 18:44	7440-39-3	
Boron	**0.18**	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 18:44	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 18:44	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 18:44	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 18:44	7439-92-1	
Lithium	**0.0063J**	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 18:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 18:44	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 18:44	7782-49-2	
Thallium	**0.00027J**	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 18:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 11:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**280**	mg/L	10.0	10.0	1		10/08/20 16:06		
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		10/10/20 03:41	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		10/10/20 03:41	16984-48-8	
Sulfate	**38.1**	mg/L	1.0	0.50	1		10/10/20 03:41	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: FD-02 **Lab ID: 92499073011** Collected: 10/07/20 00:00 Received: 10/08/20 09:40 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	**85.7**	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 19:52	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	0.00028	1	10/09/20 14:00	10/12/20 18:50	7440-36-0	
Barium	**0.11**	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 18:50	7440-39-3	
Boron	**0.19**	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 18:50	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 18:50	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 18:50	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 18:50	7439-92-1	
Lithium	**0.0062J**	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 18:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 18:50	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 18:50	7782-49-2	
Thallium	**0.00027J**	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 18:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 11:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**288**	mg/L	10.0	10.0	1		10/08/20 16:06		
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		10/10/20 04:27	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		10/10/20 04:27	16984-48-8	
Sulfate	**38.3**	mg/L	1.0	0.50	1		10/10/20 04:27	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-7D **Lab ID: 92499073012** Collected: 10/07/20 12:30 Received: 10/08/20 09:40 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		10/08/20 16:12		
pH	**6.98**	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**109**	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 19:57	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	0.00028	1	10/09/20 14:00	10/12/20 18:55	7440-36-0	
Barium	**0.0061J**	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 18:55	7440-39-3	
Boron	**0.20**	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 18:55	7440-42-8	
Chromium	**0.0014J**	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 18:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 18:55	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 18:55	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 18:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 18:55	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 18:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 18:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 11:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**334**	mg/L	10.0	10.0	1		10/08/20 16:06		
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		10/10/20 04:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/10/20 04:43	16984-48-8	
Sulfate	**48.9**	mg/L	1.0	0.50	1		10/10/20 04:43	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-15 **Lab ID: 92499073013** Collected: 10/07/20 14:45 Received: 10/08/20 09:40 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		10/08/20 16:12		
pH	**7.11**	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**93.5**	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:01	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	0.00028	1	10/09/20 14:00	10/12/20 19:01	7440-36-0	
Barium	**0.049**	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 19:01	7440-39-3	
Boron	**0.19**	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 19:01	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 19:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 19:01	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 19:01	7439-92-1	
Lithium	**0.0013J**	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 19:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 19:01	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 19:01	7782-49-2	
Thallium	**0.00022J**	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 19:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 11:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**336**	mg/L	10.0	10.0	1		10/08/20 16:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.6**	mg/L	1.0	0.60	1		10/10/20 04:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/10/20 04:58	16984-48-8	
Sulfate	**80.7**	mg/L	1.0	0.50	1		10/10/20 04:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-19 **Lab ID: 92499073014** Collected: 10/07/20 15:58 Received: 10/08/20 09:40 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		10/08/20 16:12		
pH	**6.78**	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**144**	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:06	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	0.00028	1	10/09/20 14:00	10/12/20 19:07	7440-36-0	
Barium	**0.054**	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 19:07	7440-39-3	
Boron	**0.52**	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 19:07	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 19:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 19:07	7440-48-4	
Lead	**0.000042J**	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 19:07	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 19:07	7439-93-2	
Molybdenum	**0.0019J**	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 19:07	7439-98-7	
Selenium	**0.0035J**	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 19:07	7782-49-2	
Thallium	**0.00070J**	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 19:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 12:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**492**	mg/L	10.0	10.0	1		10/08/20 16:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.5**	mg/L	1.0	0.60	1		10/10/20 05:13	16887-00-6	
Fluoride	**0.064J**	mg/L	0.10	0.050	1		10/10/20 05:13	16984-48-8	
Sulfate	**83.3**	mg/L	1.0	0.50	1		10/10/20 05:13	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: FD-01 **Lab ID: 92499073015** Collected: 10/07/20 00:00 Received: 10/08/20 09:40 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	**138**	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:19	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	0.00028	1	10/12/20 15:15	10/13/20 17:15	7440-36-0	
Barium	**0.053**	mg/L	0.010	0.00071	1	10/12/20 15:15	10/13/20 17:15	7440-39-3	
Boron	**0.55**	mg/L	0.10	0.0052	1	10/12/20 15:15	10/13/20 17:15	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/12/20 15:15	10/13/20 17:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/12/20 15:15	10/13/20 17:15	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/12/20 15:15	10/13/20 17:15	7439-92-1	
Lithium	**0.014J**	mg/L	0.030	0.00081	1	10/12/20 15:15	10/13/20 17:15	7439-93-2	
Molybdenum	**0.0019J**	mg/L	0.010	0.00069	1	10/12/20 15:15	10/13/20 17:15	7439-98-7	
Selenium	**0.0029J**	mg/L	0.010	0.0016	1	10/12/20 15:15	10/13/20 17:15	7782-49-2	
Thallium	**0.00068J**	mg/L	0.0010	0.00014	1	10/12/20 15:15	10/13/20 17:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 12:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**496**	mg/L	10.0	10.0	1		10/08/20 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.5**	mg/L	1.0	0.60	1		10/10/20 05:29	16887-00-6	
Fluoride	**0.062J**	mg/L	0.10	0.050	1		10/10/20 05:29	16984-48-8	
Sulfate	**84.0**	mg/L	1.0	0.50	1		10/10/20 05:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-17 **Lab ID: 92499073016** Collected: 10/07/20 10:35 Received: 10/08/20 09:40 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		10/08/20 16:12		
pH	**7.04**	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**112**	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:24	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	0.00028	1	10/12/20 15:15	10/13/20 17:21	7440-36-0	
Barium	**0.074**	mg/L	0.010	0.00071	1	10/12/20 15:15	10/13/20 17:21	7440-39-3	
Boron	**0.30**	mg/L	0.10	0.0052	1	10/12/20 15:15	10/13/20 17:21	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/12/20 15:15	10/13/20 17:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/12/20 15:15	10/13/20 17:21	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/12/20 15:15	10/13/20 17:21	7439-92-1	
Lithium	**0.0029J**	mg/L	0.030	0.00081	1	10/12/20 15:15	10/13/20 17:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/12/20 15:15	10/13/20 17:21	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/12/20 15:15	10/13/20 17:21	7782-49-2	
Thallium	**0.00022J**	mg/L	0.0010	0.00014	1	10/12/20 15:15	10/13/20 17:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 12:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**392**	mg/L	10.0	10.0	1		10/08/20 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.7**	mg/L	1.0	0.60	1		10/13/20 22:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/13/20 22:47	16984-48-8	
Sulfate	**89.1**	mg/L	1.0	0.50	1		10/13/20 22:47	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-18 **Lab ID: 92499073017** Collected: 10/07/20 12:05 Received: 10/08/20 09:40 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		10/08/20 16:12		
pH	**6.91**	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**129**	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:28	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0014J**	mg/L	0.0030	0.00028	1	10/12/20 15:15	10/13/20 17:44	7440-36-0	
Barium	**0.023**	mg/L	0.010	0.00071	1	10/12/20 15:15	10/13/20 17:44	7440-39-3	
Boron	**0.39**	mg/L	0.10	0.0052	1	10/12/20 15:15	10/13/20 17:44	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/12/20 15:15	10/13/20 17:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/12/20 15:15	10/13/20 17:44	7440-48-4	
Lead	**0.000042J**	mg/L	0.0050	0.000036	1	10/12/20 15:15	10/13/20 17:44	7439-92-1	
Lithium	**0.0030J**	mg/L	0.030	0.00081	1	10/12/20 15:15	10/13/20 17:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/12/20 15:15	10/13/20 17:44	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/12/20 15:15	10/13/20 17:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/12/20 15:15	10/13/20 17:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 12:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**425**	mg/L	10.0	10.0	1		10/08/20 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.0**	mg/L	1.0	0.60	1		10/13/20 23:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/13/20 23:01	16984-48-8	
Sulfate	**87.3**	mg/L	1.0	0.50	1		10/13/20 23:01	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-33 **Lab ID: 92499073018** Collected: 10/07/20 14:25 Received: 10/08/20 09:40 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		10/08/20 16:12		
pH	**7.04**	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**94.7**	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:33	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00037J**	mg/L	0.0030	0.00028	1	10/12/20 15:15	10/13/20 17:49	7440-36-0	
Barium	**0.048**	mg/L	0.010	0.00071	1	10/12/20 15:15	10/13/20 17:49	7440-39-3	
Boron	**0.35**	mg/L	0.10	0.0052	1	10/12/20 15:15	10/13/20 17:49	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/12/20 15:15	10/13/20 17:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/12/20 15:15	10/13/20 17:49	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/12/20 15:15	10/13/20 17:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	10/12/20 15:15	10/13/20 17:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/12/20 15:15	10/13/20 17:49	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/12/20 15:15	10/13/20 17:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/12/20 15:15	10/13/20 17:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 12:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**337**	mg/L	10.0	10.0	1		10/08/20 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.0**	mg/L	1.0	0.60	1		10/13/20 23:15	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/13/20 23:15	16984-48-8	
Sulfate	**54.6**	mg/L	1.0	0.50	1		10/13/20 23:15	14808-79-8	

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QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

QC Batch: 571861
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92499073001, 92499073002, 92499073003, 92499073004, 92499073005, 92499073006, 92499073007, 92499073008, 92499073009

METHOD BLANK: 3028970   Matrix: Water
Associated Lab Samples: 92499073001, 92499073002, 92499073003, 92499073004, 92499073005, 92499073006, 92499073007, 92499073008, 92499073009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	10/08/20 20:33	

LABORATORY CONTROL SAMPLE: 3028971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3028972   3028973

Parameter	Units	92498416020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	ND	1	1	1.6	1.6	76	76	75-125	0	20	

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QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

QC Batch:	572126	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92499073010, 92499073011, 92499073012, 92499073013, 92499073014, 92499073015, 92499073016, 92499073017, 92499073018

METHOD BLANK: 3030150 Matrix: Water

Associated Lab Samples: 92499073010, 92499073011, 92499073012, 92499073013, 92499073014, 92499073015, 92499073016, 92499073017, 92499073018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	10/09/20 18:09	

LABORATORY CONTROL SAMPLE: 3030151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.96J	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030152 3030153

Parameter	Units	92499650004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	1330 ug/L	1	1	2.2	2.3	90	96	75-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030154 3030155

Parameter	Units	92499466005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	1660 ug/L	1	1	10.4	10.3	875	860	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

QC Batch:	571587	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92499073001, 92499073002

METHOD BLANK: 3027387 Matrix: Water

Associated Lab Samples: 92499073001, 92499073002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	10/07/20 18:28	
Barium	mg/L	ND	0.010	0.00071	10/07/20 18:28	
Boron	mg/L	ND	0.10	0.0052	10/07/20 18:28	
Chromium	mg/L	ND	0.010	0.00055	10/07/20 18:28	
Cobalt	mg/L	ND	0.0050	0.00038	10/07/20 18:28	
Lead	mg/L	ND	0.0050	0.000036	10/07/20 18:28	
Lithium	mg/L	ND	0.030	0.00081	10/07/20 18:28	
Molybdenum	mg/L	ND	0.010	0.00069	10/07/20 18:28	
Selenium	mg/L	ND	0.010	0.0016	10/07/20 18:28	
Thallium	mg/L	ND	0.0010	0.00014	10/07/20 18:28	

LABORATORY CONTROL SAMPLE: 3027388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.0	100	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3027587 3027588

Parameter	Units	92499073002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0013J	0.1	0.1	0.11	0.11	111	111	75-125	0	20	
Barium	mg/L	0.0039J	0.1	0.1	0.10	0.10	99	98	75-125	2	20	
Boron	mg/L	0.018J	1	1	0.95	0.94	93	93	75-125	0	20	
Chromium	mg/L	0.0065J	0.1	0.1	0.10	0.11	98	99	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	2	20	
Lithium	mg/L	0.00099J	0.1	0.1	0.097	0.095	96	94	75-125	2	20	
Molybdenum	mg/L	0.00069J	0.1	0.1	0.10	0.10	103	101	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3027587 3027588

Parameter	Units	92499073002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Selenium	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

QC Batch: 572214 — Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A — Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92499073003, 92499073004, 92499073005, 92499073006, 92499073007, 92499073008, 92499073009, 92499073010, 92499073011, 92499073012, 92499073013, 92499073014

METHOD BLANK: 3030726 — Matrix: Water
Associated Lab Samples: 92499073003, 92499073004, 92499073005, 92499073006, 92499073007, 92499073008, 92499073009, 92499073010, 92499073011, 92499073012, 92499073013, 92499073014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00040J	0.0030	0.00028	10/12/20 16:10	
Barium	mg/L	ND	0.010	0.00071	10/12/20 16:10	
Boron	mg/L	ND	0.10	0.0052	10/12/20 16:10	
Chromium	mg/L	ND	0.010	0.00055	10/12/20 16:10	
Cobalt	mg/L	ND	0.0050	0.00038	10/12/20 16:10	
Lead	mg/L	ND	0.0050	0.000036	10/12/20 16:10	
Lithium	mg/L	ND	0.030	0.00081	10/12/20 16:10	
Molybdenum	mg/L	ND	0.010	0.00069	10/12/20 16:10	
Selenium	mg/L	ND	0.010	0.0016	10/12/20 16:10	
Thallium	mg/L	ND	0.0010	0.00014	10/12/20 16:10	

LABORATORY CONTROL SAMPLE: 3030727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	1.0	102	80-120	
Chromium	mg/L	0.1	0.095	95	80-120	
Cobalt	mg/L	0.1	0.093	93	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030728 — 3030729

Parameter	Units	92499073004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	110	75-125	2	20	
Barium	mg/L	0.015	0.1	0.1	0.11	0.11	96	98	75-125	1	20	
Boron	mg/L	0.015J	1	1	0.94	0.94	92	92	75-125	0	20	
Chromium	mg/L	0.00072J	0.1	0.1	0.095	0.097	94	96	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.092	0.094	92	94	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.091	0.091	91	91	75-125	0	20	

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QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030728 3030729

Parameter	Units	92499073004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.098	95	98	75-125	3	20	

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QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

QC Batch: 572544 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92499073015, 92499073016, 92499073017, 92499073018

METHOD BLANK: 3032350 Matrix: Water
Associated Lab Samples: 92499073015, 92499073016, 92499073017, 92499073018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	10/13/20 16:57	
Barium	mg/L	ND	0.010	0.00071	10/13/20 16:57	
Boron	mg/L	ND	0.10	0.0052	10/13/20 16:57	
Chromium	mg/L	ND	0.010	0.00055	10/13/20 16:57	
Cobalt	mg/L	ND	0.0050	0.00038	10/13/20 16:57	
Lead	mg/L	ND	0.0050	0.000036	10/13/20 16:57	
Lithium	mg/L	ND	0.030	0.00081	10/13/20 16:57	
Molybdenum	mg/L	ND	0.010	0.00069	10/13/20 16:57	
Selenium	mg/L	ND	0.010	0.0016	10/13/20 16:57	
Thallium	mg/L	ND	0.0010	0.00014	10/13/20 16:57	

LABORATORY CONTROL SAMPLE: 3032351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	105	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.99	99	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3032352 3032353

Parameter	Units	92499073016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	0	20	
Barium	mg/L	0.074	0.1	0.1	0.17	0.17	93	97	75-125	2	20	
Boron	mg/L	0.30	1	1	1.2	1.2	95	95	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.095	0.094	95	94	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	0	20	
Lithium	mg/L	0.0029J	0.1	0.1	0.098	0.099	95	96	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.099	96	98	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 CCR
Pace Project No.: 92499073

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3032352 3032353

Parameter	Units	92499073016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Selenium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Thallium	mg/L	0.00022J	0.1	0.1	0.092	0.091	92	91	75-125	1	20	

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QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

QC Batch:	571445	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92499073001, 92499073002, 92499073003, 92499073004, 92499073005, 92499073006, 92499073007, 92499073008, 92499073009

METHOD BLANK: 3026513 Matrix: Water

Associated Lab Samples: 92499073001, 92499073002, 92499073003, 92499073004, 92499073005, 92499073006, 92499073007, 92499073008, 92499073009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	10/07/20 19:25	

LABORATORY CONTROL SAMPLE: 3026514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3026515 3026516

Parameter	Units	92498944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	1.3 ug/L	0.0025	0.0025	0.0036	0.0035	93	90	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

QC Batch: 572203
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92499073010, 92499073011, 92499073012, 92499073013, 92499073014, 92499073015, 92499073016, 92499073017, 92499073018

METHOD BLANK: 3030665 Matrix: Water
Associated Lab Samples: 92499073010, 92499073011, 92499073012, 92499073013, 92499073014, 92499073015, 92499073016, 92499073017, 92499073018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	10/13/20 11:08	

LABORATORY CONTROL SAMPLE: 3030666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030667 3030668

Parameter	Units	92499650004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.32 ug/L	0.0025	0.0025	0.0028	0.0028	99	97	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

QC Batch: 571195
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: 92499073001, 92499073002, 92499073003, 92499073004, 92499073005, 92499073006, 92499073007, 92499073008, 92499073009

METHOD BLANK: 3025332 Matrix: Water
Associated Lab Samples: 92499073001, 92499073002, 92499073003, 92499073004, 92499073005, 92499073006, 92499073007, 92499073008, 92499073009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/07/20 14:56	

LABORATORY CONTROL SAMPLE: 3025333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	339	85	84-108	

SAMPLE DUPLICATE: 3025334

Parameter	Units	92498617001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	18.0	22.0	20	10	D6

SAMPLE DUPLICATE: 3026975

Parameter	Units	92499073007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	241	243	1	10	

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QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

QC Batch: 571887
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: 92499073010, 92499073011, 92499073012, 92499073013, 92499073014, 92499073015, 92499073016, 92499073017, 92499073018

METHOD BLANK: 3029110 Matrix: Water
Associated Lab Samples: 92499073010, 92499073011, 92499073012, 92499073013, 92499073014, 92499073015, 92499073016, 92499073017, 92499073018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/08/20 16:05	

LABORATORY CONTROL SAMPLE: 3029111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	422	106	84-108	

SAMPLE DUPLICATE: 3029112

Parameter	Units	92499390001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	402	438	9	10	

SAMPLE DUPLICATE: 3029113

Parameter	Units	92499073014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	492	495	1	10	

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QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

QC Batch: 571784
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: 92499073001, 92499073002, 92499073003

METHOD BLANK: 3028427 Matrix: Water
Associated Lab Samples: 92499073001, 92499073002, 92499073003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/09/20 11:29	
Fluoride	mg/L	ND	0.10	0.050	10/09/20 11:29	
Sulfate	mg/L	ND	1.0	0.50	10/09/20 11:29	

LABORATORY CONTROL SAMPLE: 3028428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.0	98	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	48.5	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3028431 3028432

Parameter	Units	92499192001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	38.6	50	50	87.6	87.9	98	99	90-110	0	10	
Fluoride	mg/L	0.57	2.5	2.5	3.0	3.0	98	99	90-110	1	10	
Sulfate	mg/L	309	50	50	353	353	87	87	90-110	0	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3028439 3028440

Parameter	Units	92499349001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.6	50	50	57.4	57.1	98	97	90-110	1	10	
Fluoride	mg/L	0.34	2.5	2.5	2.7	2.7	96	96	90-110	0	10	
Sulfate	mg/L	18.9	50	50	67.9	67.5	98	97	90-110	1	10	

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QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

QC Batch: 572104
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: 92499073004, 92499073005, 92499073006, 92499073007, 92499073008

METHOD BLANK: 3030077 Matrix: Water
Associated Lab Samples: 92499073004, 92499073005, 92499073006, 92499073007, 92499073008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/09/20 12:59	
Fluoride	mg/L	ND	0.10	0.050	10/09/20 12:59	
Sulfate	mg/L	ND	1.0	0.50	10/09/20 12:59	

LABORATORY CONTROL SAMPLE: 3030078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030079 3030080

Parameter	Units	92499205001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.7	50	50	55.7	58.2	104	109	90-110	4	10	
Fluoride	mg/L	0.34	2.5	2.5	3.0	3.1	106	111	90-110	4	10	M1
Sulfate	mg/L	1080	50	50	1120	1110	76	50	90-110	1	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030081 3030082

Parameter	Units	92498983001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	125	50	50	180	174	110	98	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.1	2.1	83	84	90-110	2	10	M1
Sulfate	mg/L	21.6	50	50	74.6	75.1	106	107	90-110	1	10	

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QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

QC Batch: 572105 | Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 | Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92499073009, 92499073010, 92499073011, 92499073012, 92499073013, 92499073014, 92499073015

METHOD BLANK: 3030083 Matrix: Water

Associated Lab Samples: 92499073009, 92499073010, 92499073011, 92499073012, 92499073013, 92499073014, 92499073015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/09/20 21:30	
Fluoride	mg/L	ND	0.10	0.050	10/09/20 21:30	
Sulfate	mg/L	ND	1.0	0.50	10/09/20 21:30	

LABORATORY CONTROL SAMPLE: 3030084

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.8	106	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	53.0	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030085 3030086

Parameter	Units	92499073009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.4	50	50	60.6	61.0	108	109	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	109	110	90-110	1	10	
Sulfate	mg/L	42.4	50	50	96.3	96.7	108	109	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030087 3030088

Parameter	Units	92499354001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	58.4	50	50	103	103	89	90	90-110	1	10	M1
Fluoride	mg/L	ND	2.5	2.5	2.7	2.8	107	109	90-110	2	10	
Sulfate	mg/L	39.1	50	50	92.8	93.5	107	109	90-110	1	10	

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QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

QC Batch: 572380
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: 92499073016, 92499073017, 92499073018

METHOD BLANK: 3031544 Matrix: Water
Associated Lab Samples: 92499073016, 92499073017, 92499073018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/11/20 00:03	
Fluoride	mg/L	ND	0.10	0.050	10/11/20 00:03	
Sulfate	mg/L	ND	1.0	0.50	10/11/20 00:03	

LABORATORY CONTROL SAMPLE: 3031545

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3031546 3031547

Parameter	Units	92499810001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.2	50	50	62.9	62.6	105	105	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	103	90-110	2	10	
Sulfate	mg/L	5.4	50	50	56.9	57.3	103	104	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3031548 3031549

Parameter	Units	92499831001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.6	50	50	58.5	59.1	104	105	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	100	102	90-110	2	10	
Sulfate	mg/L	9.7	50	50	61.1	61.6	103	104	90-110	1	10	

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QUALIFIERS

Project: MITCHELL CCR
Pace Project No.: 92499073

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.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92499073002	**PZ-2D**				
92499073004	**PZ-32**				
92499073005	**PZ-1D**				
92499073006	**PZ-31**				
92499073007	**PZ-14**				
92499073008	**PZ-23A**				
92499073009	**PZ-16**				
92499073010	**PZ-25**				
92499073012	**PZ-7D**				
92499073013	**PZ-15**				
92499073014	**PZ-19**				
92499073016	**PZ-17**				
92499073017	**PZ-18**				
92499073018	**PZ-33**				
92499073001	**EB-01**	EPA 3010A	571861	EPA 6010D	571912
92499073002	**PZ-2D**	EPA 3010A	571861	EPA 6010D	571912
92499073003	**FB-01**	EPA 3010A	571861	EPA 6010D	571912
92499073004	**PZ-32**	EPA 3010A	571861	EPA 6010D	571912
92499073005	**PZ-1D**	EPA 3010A	571861	EPA 6010D	571912
92499073006	**PZ-31**	EPA 3010A	571861	EPA 6010D	571912
92499073007	**PZ-14**	EPA 3010A	571861	EPA 6010D	571912
92499073008	**PZ-23A**	EPA 3010A	571861	EPA 6010D	571912
92499073009	**PZ-16**	EPA 3010A	571861	EPA 6010D	571912
92499073010	**PZ-25**	EPA 3010A	572126	EPA 6010D	572182
92499073011	**FD-02**	EPA 3010A	572126	EPA 6010D	572182
92499073012	**PZ-7D**	EPA 3010A	572126	EPA 6010D	572182
92499073013	**PZ-15**	EPA 3010A	572126	EPA 6010D	572182
92499073014	**PZ-19**	EPA 3010A	572126	EPA 6010D	572182
92499073015	**FD-01**	EPA 3010A	572126	EPA 6010D	572182
92499073016	**PZ-17**	EPA 3010A	572126	EPA 6010D	572182
92499073017	**PZ-18**	EPA 3010A	572126	EPA 6010D	572182
92499073018	**PZ-33**	EPA 3010A	572126	EPA 6010D	572182
92499073001	**EB-01**	EPA 3005A	571587	EPA 6020B	571622
92499073002	**PZ-2D**	EPA 3005A	571587	EPA 6020B	571622
92499073003	**FB-01**	EPA 3005A	572214	EPA 6020B	572248
92499073004	**PZ-32**	EPA 3005A	572214	EPA 6020B	572248
92499073005	**PZ-1D**	EPA 3005A	572214	EPA 6020B	572248
92499073006	**PZ-31**	EPA 3005A	572214	EPA 6020B	572248
92499073007	**PZ-14**	EPA 3005A	572214	EPA 6020B	572248
92499073008	**PZ-23A**	EPA 3005A	572214	EPA 6020B	572248
92499073009	**PZ-16**	EPA 3005A	572214	EPA 6020B	572248
92499073010	**PZ-25**	EPA 3005A	572214	EPA 6020B	572248
92499073011	**FD-02**	EPA 3005A	572214	EPA 6020B	572248
92499073012	**PZ-7D**	EPA 3005A	572214	EPA 6020B	572248
92499073013	**PZ-15**	EPA 3005A	572214	EPA 6020B	572248
92499073014	**PZ-19**	EPA 3005A	572214	EPA 6020B	572248

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92499073015	**FD-01**	EPA 3005A	572544	EPA 6020B	572619
92499073016	**PZ-17**	EPA 3005A	572544	EPA 6020B	572619
92499073017	**PZ-18**	EPA 3005A	572544	EPA 6020B	572619
92499073018	**PZ-33**	EPA 3005A	572544	EPA 6020B	572619
92499073001	**EB-01**	EPA 7470A	571445	EPA 7470A	571630
92499073002	**PZ-2D**	EPA 7470A	571445	EPA 7470A	571630
92499073003	**FB-01**	EPA 7470A	571445	EPA 7470A	571630
92499073004	**PZ-32**	EPA 7470A	571445	EPA 7470A	571630
92499073005	**PZ-1D**	EPA 7470A	571445	EPA 7470A	571630
92499073006	**PZ-31**	EPA 7470A	571445	EPA 7470A	571630
92499073007	**PZ-14**	EPA 7470A	571445	EPA 7470A	571630
92499073008	**PZ-23A**	EPA 7470A	571445	EPA 7470A	571630
92499073009	**PZ-16**	EPA 7470A	571445	EPA 7470A	571630
92499073010	**PZ-25**	EPA 7470A	572203	EPA 7470A	572641
92499073011	**FD-02**	EPA 7470A	572203	EPA 7470A	572641
92499073012	**PZ-7D**	EPA 7470A	572203	EPA 7470A	572641
92499073013	**PZ-15**	EPA 7470A	572203	EPA 7470A	572641
92499073014	**PZ-19**	EPA 7470A	572203	EPA 7470A	572641
92499073015	**FD-01**	EPA 7470A	572203	EPA 7470A	572641
92499073016	**PZ-17**	EPA 7470A	572203	EPA 7470A	572641
92499073017	**PZ-18**	EPA 7470A	572203	EPA 7470A	572641
92499073018	**PZ-33**	EPA 7470A	572203	EPA 7470A	572641
92499073001	**EB-01**	SM 2540C-2011	571195		
92499073002	**PZ-2D**	SM 2540C-2011	571195		
92499073003	**FB-01**	SM 2540C-2011	571195		
92499073004	**PZ-32**	SM 2540C-2011	571195		
92499073005	**PZ-1D**	SM 2540C-2011	571195		
92499073006	**PZ-31**	SM 2540C-2011	571195		
92499073007	**PZ-14**	SM 2540C-2011	571195		
92499073008	**PZ-23A**	SM 2540C-2011	571195		
92499073009	**PZ-16**	SM 2540C-2011	571195		
92499073010	**PZ-25**	SM 2540C-2011	571887		
92499073011	**FD-02**	SM 2540C-2011	571887		
92499073012	**PZ-7D**	SM 2540C-2011	571887		
92499073013	**PZ-15**	SM 2540C-2011	571887		
92499073014	**PZ-19**	SM 2540C-2011	571887		
92499073015	**FD-01**	SM 2540C-2011	571887		
92499073016	**PZ-17**	SM 2540C-2011	571887		
92499073017	**PZ-18**	SM 2540C-2011	571887		
92499073018	**PZ-33**	SM 2540C-2011	571887		
92499073001	**EB-01**	EPA 300.0 Rev 2.1 1993	571784		
92499073002	**PZ-2D**	EPA 300.0 Rev 2.1 1993	571784		
92499073003	**FB-01**	EPA 300.0 Rev 2.1 1993	571784		
92499073004	**PZ-32**	EPA 300.0 Rev 2.1 1993	572104		
92499073005	**PZ-1D**	EPA 300.0 Rev 2.1 1993	572104		
92499073006	**PZ-31**	EPA 300.0 Rev 2.1 1993	572104		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92499073007	**PZ-14**	EPA 300.0 Rev 2.1 1993	572104		
92499073008	**PZ-23A**	EPA 300.0 Rev 2.1 1993	572104		
92499073009	**PZ-16**	EPA 300.0 Rev 2.1 1993	572105		
92499073010	**PZ-25**	EPA 300.0 Rev 2.1 1993	572105		
92499073011	**FD-02**	EPA 300.0 Rev 2.1 1993	572105		
92499073012	**PZ-7D**	EPA 300.0 Rev 2.1 1993	572105		
92499073013	**PZ-15**	EPA 300.0 Rev 2.1 1993	572105		
92499073014	**PZ-19**	EPA 300.0 Rev 2.1 1993	572105		
92499073015	**FD-01**	EPA 300.0 Rev 2.1 1993	572105		
92499073016	**PZ-17**	EPA 300.0 Rev 2.1 1993	572380		
92499073017	**PZ-18**	EPA 300.0 Rev 2.1 1993	572380		
92499073018	**PZ-33**	EPA 300.0 Rev 2.1 1993	572380		

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

WO# : 92499073

92499073

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

Tracking #:

Proj. Name: [illegible]

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

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

Thermometer Used 230 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 6.0 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: CO 10/7/20

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT/GW	☑Yes ☐No ☐N/A	12.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed CO / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: **Date:**

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)

F-ALLC003rev.3, 11September2006

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

FedEx Air Bill # 8107-9699-8686 = Cooler #1
8107 9699 8697 = Cooler #2
8107 9699 8701 = Cooler #3

Page: 1 Of

Section A
Required Client Information:

Company:	Georgia Power - Coal Combustion Residuals
Address:	2480 Maner Road, Atlanta, GA 30339
Email:	jabraham@southernco.com
Phone:	(404)506-7239
Fax:	
Requested Due Date:	STANDARD TAT

Section B
Required Project Information:

Report To:	Joju Abraham
Copy To:	Wood PLC
Purchase Order #:	SCS10382775
Project Name:	Plant Mitchell CCR
Project #:	6122-16-0170.2002

Section C
Invoice Information:

Attention:	scsinvoices@southernco.com
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	betsy.mcdaniel@pacelabs.com
Pace Profile #:	333.1.2

Regulatory Agency: GA EPD
State / Location: GA

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; Groundwater GW

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

Requested Analysis Filtered (Y/N)

92499073

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	Analyses Test Y/N	Radium 226/228	App. III & App. IV Metals	TDS, Cl, F, SO4	TDS									Residual Chlorine (Y/N)	Final pH of Sample	
1	EB-01	WT	G	10/6/20	10:45				5	2		3							2	1	1	1										N/A	001
2	PZ-2D	GW	G	10/6/20	12:20				5	2		3							2	1	1	1										8.72	Cooler #1 002
3	FB-01	WT	G	10/6/20	12:55				5	2		3							2	1	1	1										N/A	003
4	PZ-32	GW	G	10/6/20	15:00				5	2		3							2	1	1	1										7.27	004
5	PZ-1D	GW	G	10/6/20	12:00				5	2		3							2	1	1	1										7.35	005
6	PZ-31	GW	G	10/6/20	14:55				5	2		3							2	1	1	1										7.01	Cooler #2 006
7	PZ-14	GW	G	10/6/20	11:30				5	2		3							2	1	1	1										7.01	007
8	PZ-23A	GW	G	10/6/20	14:25				5	2		3							2	1	1	1										6.78	008
9	PZ-16	GW	G	10/6/20	16:15				5	2		3							2	1	1	1										7.24	Cooler #3 006
10																																	
11																																	
12																																	

10-6-20

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
App III/IV metals: Boron, Ca, Sb, Ba, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Terrell Parker / Wood E&IS	10-6-20	17:00	Pace	10/7/20	0937	6.0	Y	Y	Y
Cl, F, SO4 for Anions							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Terrell Parker et al
SIGNATURE of SAMPLER:
DATE Signed: 10-6-20

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:

Company:	Georgia Power - Coal Combustion Residuals
Address:	2480 Maner Road
	Atlanta, GA 30339
Email:	jabraham@southernco.com
Phone:	(404)506-7239 Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	Joju Abraham
Copy To:	Wood PLC
Purchase Order #:	SCS10382775
Project Name:	Plant Mitchell CCR
Project #:	

Section C
Invoice Information:

Attention:	scsinvoices@southernco.com
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	betsy.mcdaniel@pacelabs.com,
Pace Profile #:	333.1.2

Regulatory Agency: GA EPD
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

Groundwater GW

Requested Analysis Filtered (Y/N)

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	Radium 226/228	App. III & App. IV Metals	TDS, Cl, F, SO4	TDS	Residual Chlorine (Y/N)	Final Sample pH
1	PZ-25	GW	G	10/7/20	09:50				5	2		3							2	1	1	1		6.95
2	FD-02	GW	G	10/7/20	—				5	2		3							2	1	1	1		6.95
3	PZ-7D	GW	G	10/7/20	12:30				5	2		3							2	1	1	1		6.98
4	PZ-15	GW	G	10/7/20	4:45				5	2		3							2	1	1	1		7.11
5	PZ-19	GW	G	10/7/20	15:58				5	2		3							2	1	1	1		6.78
6	FD-01	GW	G	10/7/20	—				5	2		3							2	1	1	1		6.78 Extern'l w/MNS for FD Conc
7	PZ-17	GW	G	10/7/20	10:35				8	2		5							2	1	1	1		7.04
8	PZ-18	GW	G	10/7/20	12:05				5	2		3							2	1	1	1		6.91
9	PZ-33	GW	G	10/7/20	14:25				7	2		5							4	1	1	1		7.04
10																								
11																								
12																								

10-7-20

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
App III/IV METALS: B, Ca, Sb, Ba, Cr, Co, Pb, Li, Hg, Mo, Se, Tl Anions: Cl⁻, F, SO4	Terrell Parker / Wood	10-7-20	16:40	[signature]	10/8/20	0940	1.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Terrell Parker
SIGNATURE of SAMPLER: [signature] DATE Signed: 10-7-2020

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

June 03, 2021

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

RE: Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Dear Michelle Barker:

Enclosed are the analytical results for sample(s) received by the laboratory between October 07, 2020 and October 08, 2020. 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,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

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

CERTIFICATIONS

Project:	MITCHELL CCR RADS
Pace Project No.:	92499068

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
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92499068001	**EB-01**	Water	10/06/20 10:45	10/07/20 09:37
92499068002	**PZ-2D**	Water	10/06/20 12:20	10/07/20 09:37
92499068003	**FB-01**	Water	10/06/20 12:55	10/07/20 09:37
92499068004	**PZ-32**	Water	10/06/20 15:00	10/07/20 09:37
92499068005	**PZ-1D**	Water	10/06/20 12:00	10/07/20 09:37
92499068006	**PZ-31**	Water	10/06/20 14:55	10/07/20 09:37
92499068007	**PZ-14**	Water	10/06/20 11:30	10/07/20 09:37
92499068008	**PZ-23A**	Water	10/06/20 14:25	10/07/20 09:37
92499068009	**PZ-16**	Water	10/06/20 16:15	10/07/20 09:37
92499068010	**PZ-25**	Water	10/07/20 09:50	10/08/20 09:40
92499068011	**FD-02**	Water	10/07/20 00:00	10/08/20 09:40
92499068012	**PZ-7D**	Water	10/07/20 12:30	10/08/20 09:40
92499068013	**PZ-15**	Water	10/07/20 14:45	10/08/20 09:40
92499068014	**PZ-19**	Water	10/07/20 15:58	10/08/20 09:40
92499068015	**FD-01**	Water	10/07/20 00:00	10/08/20 09:40
92499068016	**PZ-17**	Water	10/07/20 10:35	10/08/20 09:40
92499068017	**PZ-18**	Water	10/07/20 12:05	10/08/20 09:40
92499068018	**PZ-33**	Water	10/07/20 14:25	10/08/20 09:40

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

SAMPLE ANALYTE COUNT

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92499068001	**EB-01**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068002	**PZ-2D**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068003	**FB-01**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068004	**PZ-32**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068005	**PZ-1D**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068006	**PZ-31**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068007	**PZ-14**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068008	**PZ-23A**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068009	**PZ-16**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068010	**PZ-25**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068011	**FD-02**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068012	**PZ-7D**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068013	**PZ-15**	EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068014	**PZ-19**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068015	**FD-01**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068016	**PZ-17**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068017	**PZ-18**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068018	**PZ-33**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92499068001	**EB-01**					
EPA 9315	Radium-226	0.0778 ± 0.159 (0.369) C:84% T:NA	pCi/L		10/16/20 06:56	
EPA 9320	Radium-228	1.45 ± 0.589 (0.934) C:67% T:77%	pCi/L		10/21/20 14:50	
Total Radium Calculation	Total Radium	1.53 ± 0.748 (1.30)	pCi/L		10/23/20 10:21	
92499068002	**PZ-2D**					
EPA 9315	Radium-226	0.0659 ± 0.161 (0.390) C:81% T:NA	pCi/L		10/16/20 06:56	
EPA 9320	Radium-228	0.863 ± 0.660 (1.31) C:52% T:80%	pCi/L		10/21/20 14:50	
Total Radium Calculation	Total Radium	0.929 ± 0.821 (1.70)	pCi/L		10/23/20 10:21	
92499068003	**FB-01**					
EPA 9315	Radium-226	-0.0382 ± 0.0986 (0.364) C:90% T:NA	pCi/L		10/16/20 06:56	
EPA 9320	Radium-228	0.783 ± 0.590 (1.17) C:66% T:70%	pCi/L		10/21/20 14:51	
Total Radium Calculation	Total Radium	0.783 ± 0.689 (1.53)	pCi/L		10/23/20 10:21	
92499068004	**PZ-32**					
EPA 9315	Radium-226	0.0478 ± 0.165 (0.425) C:82% T:NA	pCi/L		10/16/20 08:35	
EPA 9320	Radium-228	0.323 ± 0.416 (0.886) C:72% T:84%	pCi/L		10/21/20 14:51	
Total Radium Calculation	Total Radium	0.371 ± 0.581 (1.31)	pCi/L		10/23/20 10:21	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92499068005	**PZ-1D**					
EPA 9315	Radium-226	0.278 ± 0.234 (0.380) C:81% T:NA	pCi/L		10/16/20 08:35	
EPA 9320	Radium-228	0.718 ± 0.482 (0.921) C:64% T:81%	pCi/L		10/21/20 14:51	
Total Radium Calculation	Total Radium	0.996 ± 0.716 (1.30)	pCi/L		10/23/20 10:21	
92499068006	**PZ-31**					
EPA 9315	Radium-226	0.0313 ± 0.149 (0.403) C:78% T:NA	pCi/L		10/16/20 08:35	
EPA 9320	Radium-228	0.245 ± 0.379 (0.820) C:71% T:86%	pCi/L		10/21/20 14:51	
Total Radium Calculation	Total Radium	0.276 ± 0.528 (1.22)	pCi/L		10/23/20 10:21	
92499068007	**PZ-14**					
EPA 9315	Radium-226	0.220 ± 0.226 (0.426) C:85% T:NA	pCi/L		10/16/20 08:36	
EPA 9320	Radium-228	0.0452 ± 0.588 (1.35) C:59% T:71%	pCi/L		10/21/20 14:51	
Total Radium Calculation	Total Radium	0.265 ± 0.814 (1.78)	pCi/L		10/23/20 10:21	
92499068008	**PZ-23A**					
EPA 9315	Radium-226	0.644 ± 0.354 (0.495) C:83% T:NA	pCi/L		10/16/20 08:37	
EPA 9320	Radium-228	0.596 ± 0.456 (0.904) C:72% T:82%	pCi/L		10/21/20 14:51	
Total Radium Calculation	Total Radium	1.24 ± 0.810 (1.40)	pCi/L		10/23/20 10:21	

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SUMMARY OF DETECTION

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92499068009	**PZ-16**					
EPA 9315	Radium-226	0.161 ± 0.191 (0.363) C:80% T:NA	pCi/L		10/16/20 08:37	
EPA 9320	Radium-228	0.958 ± 0.477 (0.832) C:70% T:82%	pCi/L		10/21/20 14:51	
Total Radium Calculation	Total Radium	1.12 ± 0.668 (1.20)	pCi/L		10/23/20 10:21	
92499068010	**PZ-25**					
EPA 9315	Radium-226	0.439 ± 0.164 (0.222) C:91% T:NA	pCi/L		10/19/20 18:23	
EPA 9320	Radium-228	0.568 ± 0.418 (0.818) C:70% T:89%	pCi/L		10/27/20 15:00	
Total Radium Calculation	Total Radium	1.01 ± 0.582 (1.04)	pCi/L		10/28/20 15:13	
92499068011	**FD-02**					
EPA 9315	Radium-226	0.376 ± 0.148 (0.202) C:89% T:NA	pCi/L		10/19/20 18:23	
EPA 9320	Radium-228	0.584 ± 0.506 (1.03) C:67% T:82%	pCi/L		10/27/20 15:00	
Total Radium Calculation	Total Radium	0.960 ± 0.654 (1.23)	pCi/L		10/28/20 15:13	
92499068012	**PZ-7D**					
EPA 9315	Radium-226	0.0454 ± 0.112 (0.226) C:91% T:NA	pCi/L		10/19/20 18:23	
EPA 9320	Radium-228	0.187 ± 0.505 (1.13) C:64% T:79%	pCi/L		10/27/20 15:00	
Total Radium Calculation	Total Radium	0.232 ± 0.617 (1.36)	pCi/L		10/28/20 15:13	

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SUMMARY OF DETECTION

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92499068013	**PZ-15**					
EPA 9315	Radium-226	0.251 ± 0.152 (0.252) C:84% T:NA	pCi/L		10/19/20 18:12	
EPA 9320	Radium-228	0.967 ± 0.548 (1.00) C:66% T:81%	pCi/L		10/27/20 15:01	
Total Radium Calculation	Total Radium	1.22 ± 0.700 (1.25)	pCi/L		10/28/20 15:13	
92499068014	**PZ-19**					
EPA 9315	Radium-226	0.517 ± 0.178 (0.226) C:87% T:NA	pCi/L		10/19/20 18:13	
EPA 9320	Radium-228	0.376 ± 0.326 (0.655) C:84% T:80%	pCi/L		10/30/20 10:54	
Total Radium Calculation	Total Radium	0.893 ± 0.504 (0.881)	pCi/L		11/01/20 12:49	
92499068015	**FD-01**					
EPA 9315	Radium-226	0.595 ± 0.204 (0.280) C:91% T:NA	pCi/L		10/19/20 18:14	
EPA 9320	Radium-228	0.492 ± 0.345 (0.655) C:70% T:88%	pCi/L		10/27/20 14:59	
Total Radium Calculation	Total Radium	1.09 ± 0.549 (0.935)	pCi/L		10/28/20 15:13	
92499068016	**PZ-17**					
EPA 9315	Radium-226	0.374 ± 0.149 (0.204) C:90% T:NA	pCi/L		10/19/20 18:15	
EPA 9320	Radium-228	0.0584 ± 0.354 (0.818) C:65% T:82%	pCi/L		10/27/20 14:59	
Total Radium Calculation	Total Radium	0.432 ± 0.503 (1.02)	pCi/L		10/28/20 15:13	

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SUMMARY OF DETECTION

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92499068017	**PZ-18**					
EPA 9315	Radium-226	0.365 ± 0.182 (0.292) C:81% T:NA	pCi/L		10/19/20 18:15	
EPA 9320	Radium-228	-0.0286 ± 0.365 (0.861) C:68% T:81%	pCi/L		10/27/20 14:59	
Total Radium Calculation	Total Radium	0.365 ± 0.547 (1.15)	pCi/L		10/28/20 15:13	
92499068018	**PZ-33**					
EPA 9315	Radium-226	0.442 ± 0.169 (0.233) C:86% T:NA	pCi/L		10/19/20 17:55	
EPA 9320	Radium-228	-0.0127 ± 0.311 (0.730) C:73% T:83%	pCi/L		10/27/20 11:52	
Total Radium Calculation	Total Radium	0.442 ± 0.480 (0.963)	pCi/L		10/28/20 15:13	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: EB-01 | **Lab ID: 92499068001** | Collected: 10/06/20 10:45 | Received: 10/07/20 09:37 | 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	**0.0778 ± 0.159 (0.369) C:84% T:NA**	pCi/L	10/16/20 06:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.45 ± 0.589 (0.934) C:67% T:77%**	pCi/L	10/21/20 14:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.53 ± 0.748 (1.30)**	pCi/L	10/23/20 10:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: PZ-2D | **Lab ID: 92499068002** | Collected: 10/06/20 12:20 | Received: 10/07/20 09:37 | 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	**0.0659 ± 0.161 (0.390) C:81% T:NA**	pCi/L	10/16/20 06:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.863 ± 0.660 (1.31) C:52% T:80%**	pCi/L	10/21/20 14:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.929 ± 0.821 (1.70)**	pCi/L	10/23/20 10:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: FB-01 | **Lab ID: 92499068003** | Collected: 10/06/20 12:55 | Received: 10/07/20 09:37 | 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	**-0.0382 ± 0.0986 (0.364) C:90% T:NA**	pCi/L	10/16/20 06:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.783 ± 0.590 (1.17) C:66% T:70%**	pCi/L	10/21/20 14:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.783 ± 0.689 (1.53)**	pCi/L	10/23/20 10:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: PZ-32 | **Lab ID: 92499068004** | Collected: 10/06/20 15:00 | Received: 10/07/20 09:37 | 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	**0.0478 ± 0.165 (0.425) C:82% T:NA**	pCi/L	10/16/20 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.323 ± 0.416 (0.886) C:72% T:84%**	pCi/L	10/21/20 14:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.371 ± 0.581 (1.31)**	pCi/L	10/23/20 10:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: PZ-1D | **Lab ID: 92499068005** | Collected: 10/06/20 12:00 | Received: 10/07/20 09:37 | 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	**0.278 ± 0.234 (0.380) C:81% T:NA**	pCi/L	10/16/20 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.718 ± 0.482 (0.921) C:64% T:81%**	pCi/L	10/21/20 14:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.996 ± 0.716 (1.30)**	pCi/L	10/23/20 10:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: PZ-31 | **Lab ID: 92499068006** | Collected: 10/06/20 14:55 | Received: 10/07/20 09:37 | 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	**0.0313 ± 0.149 (0.403) C:78% T:NA**	pCi/L	10/16/20 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.245 ± 0.379 (0.820) C:71% T:86%**	pCi/L	10/21/20 14:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.276 ± 0.528 (1.22)**	pCi/L	10/23/20 10:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: PZ-14 | **Lab ID: 92499068007** | Collected: 10/06/20 11:30 | Received: 10/07/20 09:37 | 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 ± 0.226 (0.426) C:85% T:NA**	pCi/L	10/16/20 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0452 ± 0.588 (1.35) C:59% T:71%**	pCi/L	10/21/20 14:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.265 ± 0.814 (1.78)**	pCi/L	10/23/20 10:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: PZ-23A | **Lab ID: 92499068008** | Collected: 10/06/20 14:25 | Received: 10/07/20 09:37 | 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	**0.644 ± 0.354 (0.495) C:83% T:NA**	pCi/L	10/16/20 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.596 ± 0.456 (0.904) C:72% T:82%**	pCi/L	10/21/20 14:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.24 ± 0.810 (1.40)**	pCi/L	10/23/20 10:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: PZ-16 | **Lab ID: 92499068009** | Collected: 10/06/20 16:15 | Received: 10/07/20 09:37 | 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	**0.161 ± 0.191 (0.363) C:80% T:NA**	pCi/L	10/16/20 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.958 ± 0.477 (0.832) C:70% T:82%**	pCi/L	10/21/20 14:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.12 ± 0.668 (1.20)**	pCi/L	10/23/20 10:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: PZ-25 **Lab ID: 92499068010** Collected: 10/07/20 09:50 Received: 10/08/20 09:40 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	**0.439 ± 0.164 (0.222) C:91% T:NA**	pCi/L	10/19/20 18:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.568 ± 0.418 (0.818) C:70% T:89%**	pCi/L	10/27/20 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.01 ± 0.582 (1.04)**	pCi/L	10/28/20 15:13	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: FD-02 | **Lab ID: 92499068011** | Collected: 10/07/20 00:00 | Received: 10/08/20 09:40 | 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	**0.376 ± 0.148 (0.202) C:89% T:NA**	pCi/L	10/19/20 18:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.584 ± 0.506 (1.03) C:67% T:82%**	pCi/L	10/27/20 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.960 ± 0.654 (1.23)**	pCi/L	10/28/20 15:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: PZ-7D | **Lab ID: 92499068012** | Collected: 10/07/20 12:30 | Received: 10/08/20 09:40 | 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	**0.0454 ± 0.112 (0.226) C:91% T:NA**	pCi/L	10/19/20 18:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.187 ± 0.505 (1.13) C:64% T:79%**	pCi/L	10/27/20 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.232 ± 0.617 (1.36)**	pCi/L	10/28/20 15:13	7440-14-4	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: PZ-15 | **Lab ID: 92499068013** | Collected: 10/07/20 14:45 | Received: 10/08/20 09:40 | 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	**0.251 ± 0.152 (0.252) C:84% T:NA**	pCi/L	10/19/20 18:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.967 ± 0.548 (1.00) C:66% T:81%**	pCi/L	10/27/20 15:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.22 ± 0.700 (1.25)**	pCi/L	10/28/20 15:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: PZ-19 | **Lab ID: 92499068014** | Collected: 10/07/20 15:58 | Received: 10/08/20 09:40 | 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	**0.517 ± 0.178 (0.226) C:87% T:NA**	pCi/L	10/19/20 18:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.376 ± 0.326 (0.655) C:84% T:80%**	pCi/L	10/30/20 10:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.893 ± 0.504 (0.881)**	pCi/L	11/01/20 12:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: FD-01 | **Lab ID: 92499068015** | Collected: 10/07/20 00:00 | Received: 10/08/20 09:40 | 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	**0.595 ± 0.204 (0.280) C:91% T:NA**	pCi/L	10/19/20 18:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.492 ± 0.345 (0.655) C:70% T:88%**	pCi/L	10/27/20 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.09 ± 0.549 (0.935)**	pCi/L	10/28/20 15:13	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: PZ-17 | **Lab ID: 92499068016** | Collected: 10/07/20 10:35 | Received: 10/08/20 09:40 | 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	**0.374 ± 0.149 (0.204) C:90% T:NA**	pCi/L	10/19/20 18:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0584 ± 0.354 (0.818) C:65% T:82%**	pCi/L	10/27/20 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.432 ± 0.503 (1.02)**	pCi/L	10/28/20 15:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: PZ-18 | **Lab ID: 92499068017** | Collected: 10/07/20 12:05 | Received: 10/08/20 09:40 | 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	**0.365 ± 0.182 (0.292) C:81% T:NA**	pCi/L	10/19/20 18:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0286 ± 0.365 (0.861) C:68% T:81%**	pCi/L	10/27/20 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.365 ± 0.547 (1.15)**	pCi/L	10/28/20 15:13	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Sample: PZ-33 **Lab ID: 92499068018** Collected: 10/07/20 14:25 Received: 10/08/20 09:40 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	**0.442 ± 0.169 (0.233) C:86% T:NA**	pCi/L	10/19/20 17:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0127 ± 0.311 (0.730) C:73% T:83%**	pCi/L	10/27/20 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.442 ± 0.480 (0.963)**	pCi/L	10/28/20 15:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

QC Batch:	418039	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92499068001, 92499068002, 92499068003, 92499068004, 92499068005, 92499068006, 92499068007, 92499068008, 92499068009

METHOD BLANK: 2021122 Matrix: Water

Associated Lab Samples: 92499068001, 92499068002, 92499068003, 92499068004, 92499068005, 92499068006, 92499068007, 92499068008, 92499068009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.318 ± 0.365 (0.768) C:69% T:89%	pCi/L	10/21/20 11:32	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

QC Batch: 418036
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92499068004, 92499068005, 92499068006, 92499068007, 92499068008, 92499068009

METHOD BLANK: 2021119 Matrix: Water
Associated Lab Samples: 92499068004, 92499068005, 92499068006, 92499068007, 92499068008, 92499068009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.149 ± 0.187 (0.370) C:81% T:NA	pCi/L	10/16/20 08:35	

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

QC Batch:	418550	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92499068010, 92499068011, 92499068012, 92499068013, 92499068014, 92499068015, 92499068016, 92499068017, 92499068018

METHOD BLANK: 2023109 Matrix: Water

Associated Lab Samples: 92499068010, 92499068011, 92499068012, 92499068013, 92499068014, 92499068015, 92499068016, 92499068017, 92499068018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0638 ± 0.107 (0.209) C:94% T:NA	pCi/L	10/19/20 18:23	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

QC Batch: 418553
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92499068010, 92499068011, 92499068012, 92499068013, 92499068014, 92499068015, 92499068016, 92499068017, 92499068018

METHOD BLANK: 2023116 Matrix: Water

Associated Lab Samples: 92499068010, 92499068011, 92499068012, 92499068013, 92499068014, 92499068015, 92499068016, 92499068017, 92499068018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.454 ± 0.339 (0.661) C:71% T:93%	pCi/L	10/27/20 11:52	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

QC Batch: 418033
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92499068001, 92499068002, 92499068003

METHOD BLANK: 2021110 Matrix: Water
Associated Lab Samples: 92499068001, 92499068002, 92499068003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0872 ± 0.193 (0.458) C:76% T:NA	pCi/L	10/16/20 06:43	

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

QUALIFIERS

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

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.

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.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92499068001	**EB-01**	EPA 9315	418033		
92499068002	**PZ-2D**	EPA 9315	418033		
92499068003	**FB-01**	EPA 9315	418033		
92499068004	**PZ-32**	EPA 9315	418036		
92499068005	**PZ-1D**	EPA 9315	418036		
92499068006	**PZ-31**	EPA 9315	418036		
92499068007	**PZ-14**	EPA 9315	418036		
92499068008	**PZ-23A**	EPA 9315	418036		
92499068009	**PZ-16**	EPA 9315	418036		
92499068010	**PZ-25**	EPA 9315	418550		
92499068011	**FD-02**	EPA 9315	418550		
92499068012	**PZ-7D**	EPA 9315	418550		
92499068013	**PZ-15**	EPA 9315	418550		
92499068014	**PZ-19**	EPA 9315	418550		
92499068015	**FD-01**	EPA 9315	418550		
92499068016	**PZ-17**	EPA 9315	418550		
92499068017	**PZ-18**	EPA 9315	418550		
92499068018	**PZ-33**	EPA 9315	418550		
92499068001	**EB-01**	EPA 9320	418039		
92499068002	**PZ-2D**	EPA 9320	418039		
92499068003	**FB-01**	EPA 9320	418039		
92499068004	**PZ-32**	EPA 9320	418039		
92499068005	**PZ-1D**	EPA 9320	418039		
92499068006	**PZ-31**	EPA 9320	418039		
92499068007	**PZ-14**	EPA 9320	418039		
92499068008	**PZ-23A**	EPA 9320	418039		
92499068009	**PZ-16**	EPA 9320	418039		
92499068010	**PZ-25**	EPA 9320	418553		
92499068011	**FD-02**	EPA 9320	418553		
92499068012	**PZ-7D**	EPA 9320	418553		
92499068013	**PZ-15**	EPA 9320	418553		
92499068014	**PZ-19**	EPA 9320	418553		
92499068015	**FD-01**	EPA 9320	418553		
92499068016	**PZ-17**	EPA 9320	418553		
92499068017	**PZ-18**	EPA 9320	418553		
92499068018	**PZ-33**	EPA 9320	418553		
92499068001	**EB-01**	Total Radium Calculation	419980		
92499068002	**PZ-2D**	Total Radium Calculation	419980		
92499068003	**FB-01**	Total Radium Calculation	419980		
92499068004	**PZ-32**	Total Radium Calculation	419980		
92499068005	**PZ-1D**	Total Radium Calculation	419980		
92499068006	**PZ-31**	Total Radium Calculation	419980		
92499068007	**PZ-14**	Total Radium Calculation	419980		
92499068008	**PZ-23A**	Total Radium Calculation	419980		
92499068009	**PZ-16**	Total Radium Calculation	419980		
92499068010	**PZ-25**	Total Radium Calculation	420676		

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL CCR RADS
Pace Project No.: 92499068

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92499068011	**FD-02**	Total Radium Calculation	420676		
92499068012	**PZ-7D**	Total Radium Calculation	420676		
92499068013	**PZ-15**	Total Radium Calculation	420676		
92499068014	**PZ-19**	Total Radium Calculation	421105		
92499068015	**FD-01**	Total Radium Calculation	420676		
92499068016	**PZ-17**	Total Radium Calculation	420676		
92499068017	**PZ-18**	Total Radium Calculation	420676		
92499068018	**PZ-33**	Total Radium Calculation	420676		

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

WO#: 92499068

92499068

Courier: [x] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other

Tracking #: ____________

Custody Seal on Cooler/Box Present: [x] yes [ ] no Seals intact: [x] yes [ ] no

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [ ] None [x] Other ziplock

Thermometer Used 230 **Type of Ice:** Wet Blue None [ ] Samples on ice, cooling process has begun

Cooler Temperature 1.0°C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: CO 10/7/20

Comments:

Chain of Custody Present:	[x] Yes	[ ] No	[ ] N/A	1.
Chain of Custody Filled Out:	[x] Yes	[ ] No	[ ] N/A	2.
Chain of Custody Relinquished:	[x] Yes	[ ] No	[ ] N/A	3.
Sampler Name & Signature on COC:	[x] Yes	[ ] No	[ ] N/A	4.
Samples Arrived within Hold Time:	[x] Yes	[ ] No	[ ] N/A	5.
Short Hold Time Analysis (<72hr):	[ ] Yes	[x] No	[ ] N/A	6.
Rush Turn Around Time Requested:	[ ] Yes	[x] No	[ ] N/A	7.
Sufficient Volume:	[x] Yes	[ ] No	[ ] N/A	8.
Correct Containers Used:	[x] Yes	[ ] No	[ ] N/A	9.
-Pace Containers Used:	[x] Yes	[ ] No	[ ] N/A	
Containers Intact:	[x] Yes	[ ] No	[ ] N/A	10.
Filtered volume received for Dissolved tests	[ ] Yes	[ ] No	[x] N/A	11.
Sample Labels match COC:	[x] Yes	[ ] No	[ ] N/A	12.
-Includes date/time/ID/Analysis Matrix: WT/GW				
All containers needing preservation have been checked.	[x] Yes	[ ] No	[ ] N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	[x] Yes	[ ] No	[ ] N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	[ ] Yes	[ ] No		Initial when completed CO / Lot # of added preservative
Samples checked for dechlorination:	[ ] Yes	[ ] No	[x] N/A	14.
Headspace in VOA Vials (>6mm):	[ ] Yes	[ ] No	[x] N/A	15.
Trip Blank Present:	[ ] Yes	[x] No	[ ] N/A	16.
Trip Blank Custody Seals Present	[ ] Yes	[ ] No	[x] N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: ____________ Date/Time: ____________

Comments/ Resolution: ____________

Project Manager Review: ____________ **Date:** ____________

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)

F-ALLC003rev.3, 11September2006

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
Address: 2480 Maner Road
Atlanta, GA 30339
Email: jabraham@southernco.com
Phone: (404)506-7239 Fax:
Requested Due Date: STANDARD TAT

Section B
Required Project Information:

Report To: Joju Abraham
Copy To: Wood PLC
Purchase Order #: SCS10382775
Project Name: Plant Mitchell CCR
Project #: 6122-16-0170.2002

Section C
Invoice Information:

FedEx Air Bill # 8107-9699-8686 = Cooler #1
8107 9699 8697 - Cooler #2
8107 9699 8701 = Cooler #3

Attention: scsinvoices@southernco.com
Company Name:
Address:
Pace Quote:
Pace Project Manager: betsy.mcdaniel@pacelabs.com,
Pace Profile #: 333.1.2

Page: 1 Of

Regulatory Agency: GA EPD
State / Location: GA

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; Groundwater GW

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION (oC)	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Radium 226/228	App. III & App. IV Metals	TDS, Cl, F, SO4	TDS	Residual Chlorine (Y/N)	92499068 Final pH of Sample
1	EB-01	WT	G	10/6/20	10:45				5	2		3							2	1	1	1		N/A
2	PZ-2D	GW	G	10/6/20	12:20				5	2		3							2	1	1	1		8.72 Cooler #1
3	FB-01	WT	G	10/6/20	12:55				5	2		3							2	1	1	1		N/A
4	PZ-32	GW	G	10/6/20	15:00				5	2		3							2	1	1	1		7.27
5	PZ-1D	GW	G	9/6/20	12:00				5	2		3							2	1	1	1		7.35
6	PZ-31	GW	G	9/6/20	14:55				5	2		3							2	1	1	1		7.01 Cooler #2
7	PZ-14	GW	G	9/6/20	11:30				5	2		3							2	1	1	1		7.01
8	PZ-23A	GW	G	10/6/20	14:25				5	2		3							2	1	1	1		6.78
9	PZ-16	GW	G	9/6/20	16:15				5	2		3							2	1	1	1		7.24 Cooler #3
10																								
11																								
12																								

10-6-20

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
App III/IV METALS: Boron, Ca, Sb, Ba, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Terrell Parker / Wood E&IS	10-6-20	17:00	Pace	10/7/20	0937	6.0	Y	Y	Y
Cl, F, SO4 for Anions										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Terrell Parker ET AL
SIGNATURE of SAMPLER: DATE Signed: 10-6-20

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:

Company:	Georgia Power - Coal Combustion Residuals
Address:	2480 Maner Road, Atlanta, GA 30339
Email:	jabraham@southernco.com
Phone:	(404)506-7239 Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	Joju Abraham
Copy To:	Wood PLC
Purchase Order #:	SCS10382775
Project Name:	Plant Mitchell CCR
Project #:	

Section C
Invoice Information:

Attention:	scsinvoices@southernco.com
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	betsy.mcdaniel@pacelabs.com,
Pace Profile #:	333.1.2

Regulatory Agency	State / Location
GA EPD	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
Groundwater	GW

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	Radium 226/228	App. III & App. IV Metals	TDS, Cl, F, SO4	TDS	Residual Chlorine (Y/N)	
1	PZ-25	GW	G	10/7/20	09:50				5	2		3							2	1	1	1		Final Sample AH 6.95
2	FD-02	GW	G	10/7/20	—				5	2		3							2	1	1	1		6.95
3	PZ-7D	GW	G	10/7/20	12:30				5	2		3							2	1	1	1		6.98
4	PZ-15	GW	G	10/7/20	14:45				5	2		3							2	1	1	1		7.11
5	PZ-19	GW	G	10/7/20	15:58				5	2		3							2	1	1	1		6.78
6	FD-01	GW	G	10/7/20	—				5	2		3							2	1	1	1		6.78 Extra 1L w/HNO3 for rad QC conc
7	PZ-17	GW	G	10/7/20	10:35				5	2		5							2	1	1	1		7.04
8	PZ-18	GW	G	10/7/20	12:05				5	2		3							2	1	1	1		6.91
9	PZ-33	GW	G	10/7/20	14:25				7	2		5							4	1	1	1		7.04
10																								
11																								
12																								

10-7-20

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
App III/IV METALS: B, Ca, Sb, Ba, Cr, Co, Pb, Li, Hg, Mo, Se, Tl; Anions: Cl⁻, F, SO4	Terrell Parker / Wood	10-7-20	16:40	[signature]	10/8/20	0940	1.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Terrell Parker

SIGNATURE of SAMPLER: [signature]

DATE Signed: 10-7-2020

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

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Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	LAL
Date:	10/15/2020
Worklist:	56677
Matrix:	DW

Method Blank Assessment	
MB Sample ID	2021110
MB concentration:	0.087
M/B Counting Uncertainty:	0.193
MB MDC:	0.458
MB Numerical Performance Indicator:	0.89
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS56677	LCSD56677
Count Date:	10/16/2020	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.044	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.524	
Target Conc. (pCi/L, g, F):	4.586	
Uncertainty (Calculated):	0.055	
Result (pCi/L, g, F):	3.940	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.731	
Numerical Performance Indicator:	-1.73	
Percent Recovery:	85.91%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment		
Sample I.D.:	92498068019	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92498068019DUP	
Sample Result (pCi/L, g, F):	1.060	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.421	
Sample Duplicate Result (pCi/L, g, F):	0.947	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.373	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	0.393	92498068019
Duplicate RPD:	11.23%	92498068019DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

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:		

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:

VAM 10/16/2020

CM 10/16/2020

Quality Control Sample Performance Assessment

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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	LAL
Date:	10/15/2020
Worklist:	56677
Matrix:	DW

Method Blank Assessment	
MB Sample ID	2021110
MB concentration:	0.087
M/B Counting Uncertainty:	0.193
MB MDC:	0.458
MB Numerical Performance Indicator:	0.89
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS56677	LCSD56677
Count Date:	10/16/2020	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.044	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.524	
Target Conc. (pCi/L, g, F):	4.586	
Uncertainty (Calculated):	0.055	
Result (pCi/L, g, F):	3.940	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.731	
Numerical Performance Indicator:	-1.73	
Percent Recovery:	85.91%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	92498068014	
Duplicate Sample I.D.	92498068014DUP	
Sample Result (pCi/L, g, F):	1.691	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.495	
Sample Duplicate Result (pCi/L, g, F):	1.375	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.433	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	0.942	92498068014
Duplicate RPD:	20.61%	92498068014DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

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:		

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:

AW 10/16/2020

VAM 10/16/2020

Quality Control Sample Performance Assessment

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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	LAL
Date:	10/15/2020
Worklist:	56679
Matrix:	DW

Method Blank Assessment	
MB Sample ID	2021119
MB concentration:	0.149
M/B Counting Uncertainty:	0.186
MB MDC:	0.370
MB Numerical Performance Indicator:	1.56
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS56679	LCSD56679
Count Date:	10/16/2020	10/16/2020
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.044	24.044
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.512	0.519
Target Conc. (pCi/L, g, F):	4.697	4.635
Uncertainty (Calculated):	0.056	0.056
Result (pCi/L, g, F):	3.930	4.568
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.735	0.757
Numerical Performance Indicator:	-2.04	-0.17
Percent Recovery:	83.67%	98.56%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment		
Sample I.D.:	LCS56679	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD56679	
Sample Rasult (pCi/L, g, F):	3.930	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.735	
Sample Duplicate Result (pCi/L, g, F):	4.568	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.757	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.186	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.34%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

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:		

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:

Clu 10/16/2020

LAM 10/16/2020

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Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	LAL
Date:	10/19/2020
Worklist:	56785
Matrix:	DW

Method Blank Assessment	
MB Sample ID	2023109
MB concentration:	0.064
M/B Counting Uncertainty:	0.107
MB MDC:	0.209
MB Numerical Performance Indicator:	1.17
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS56785	LCSD56785
Count Date:	10/19/2020	10/19/2020
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.043	24.043
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.501
Target Conc. (pCi/L, g, F):	4.778	4.800
Uncertainty (Calculated):	0.057	0.058
Result (pCi/L, g, F):	4.258	4.127
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.347	0.379
Numerical Performance Indicator:	-2.90	-3.44
Percent Recovery:	89.12%	85.99%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment		
Sample I.D.:	LCS56785	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD56785	
Sample Result (pCi/L, g, F):	4.258	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.347	
Sample Duplicate Result (pCi/L, g, F):	4.127	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.379	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.500	92499068016
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.58%	92499068016DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

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:		

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:

Qh 10/20/2020

LAM 10/20/2020

Quality Control Sample Performance Assessment

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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	LAL
Date:	10/19/2020
Worklist:	56785
Matrix:	DW

Method Blank Assessment	
MB Sample ID	2023109
MB concentration:	0.064
M/B Counting Uncertainty:	0.107
MB MDC:	0.209
MB Numerical Performance Indicator:	1.17
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS56785	LCSD56785
Count Date:	10/19/2020	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.043	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.503	
Target Conc. (pCi/L, g, F):	4.778	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	4.258	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.347	
Numerical Performance Indicator:	-2.90	
Percent Recovery:	89.12%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	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.:	92499068016	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92499068016DUP	
Sample Result (pCi/L, g, F):	0.374	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.138	
Sample Duplicate Result (pCi/L, g, F):	0.488	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.176	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	-1.000	92499068016
Duplicate RPD:	26.54%	92499068016DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	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 10/20/2020

AW 10/20/2020

LAM 10/20/2020

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	10/14/2020
Worklist:	56682
Matrix:	WT

Method Blank Assessment	
MB Sample ID	2021122
MB concentration:	0.318
M/B 2 Sigma CSU:	0.365
MB MDC:	0.768
MB Numerical Performance Indicator:	1.70
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS56682	LCSD56682
Count Date:	10/21/2020	10/21/2020
Spike I.D.:	20-030	20-030
Decay Corrected Spike Concentration (pCi/mL):	37.943	37.943
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.813	0.813
Target Conc. (pCi/L, g, F):	4.669	4.670
Uncertainty (Calculated):	0.229	0.229
Result (pCi/L, g, F):	4.756	5.987
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.070	1.314
Numerical Performance Indicator:	0.16	1.93
Percent Recovery:	101.86%	128.20%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS56682	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD56682	
Sample Result (pCi/L, g, F):	4.756	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.070	
Sample Duplicate Result (pCi/L, g, F):	5.987	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.314	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.424	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	22.90%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		

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:

JJ 10-22-20

Quality Control Sample Performance Assessment

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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	10/21/2020
Worklist:	56787
Matrix:	WT

Method Blank Assessment	
MB Sample ID	2023116
MB concentration:	0.454
M/B 2 Sigma CSU:	0.339
MB MDC:	0.661
MB Numerical Performance Indicator:	2.62
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS56787	LCSD56787
Count Date:	10/27/2020	
Spike I.D.:	20-030	
Decay Corrected Spike Concentration (pCi/mL):	37.867	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.810	
Target Conc. (pCi/L, g, F):	4.675	
Uncertainty (Calculated):	0.229	
Result (pCi/L, g, F):	4.038	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.957	
Numerical Performance Indicator:	-1.27	
Percent Recovery:	86.38%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:	92499068018	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92499068018DUP	
Sample Result (pCi/L, g, F):	-0.013	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.311	
Sample Duplicate Result (pCi/L, g, F):	0.279	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.332	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	-1.256	92499068018
Duplicate RPD:	219.02%	92499068018DUP
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	36%	

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:		

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:

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

June 03, 2021

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

RE: Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Dear Michelle Barker:

Enclosed are the analytical results for sample(s) received by the laboratory between March 05, 2021 and March 09, 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,

Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

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 SPRING 2021 SA
Pace Project No.:	92525919

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

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(770)734-4200

SAMPLE SUMMARY

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525919001	**PZ-32**	Water	03/03/21 10:15	03/05/21 09:45
92525919002	**PZ-14**	Water	03/03/21 13:20	03/05/21 09:45
92525919003	**PZ-23A**	Water	03/03/21 16:15	03/05/21 09:45
92525919004	**DUP-2**	Water	03/03/21 00:00	03/05/21 09:45
92525919005	**EB-1**	Water	03/03/21 09:55	03/05/21 09:45
92525919006	**PZ-1D**	Water	03/03/21 11:15	03/05/21 09:45
92525919007	**PZ-31**	Water	03/03/21 13:40	03/05/21 09:45
92525919008	**PZ-25**	Water	03/03/21 13:46	03/05/21 09:45
92525919009	**DUP-1**	Water	03/03/21 00:00	03/05/21 09:45
92525919010	**PZ-19**	Water	03/03/21 16:00	03/05/21 09:45
92525919011	**PZ-17**	Water	03/04/21 10:00	03/05/21 13:10
92525919012	**PZ-18**	Water	03/04/21 11:05	03/05/21 13:10
92525919013	**PZ-16**	Water	03/04/21 11:15	03/05/21 13:10
92525919014	**PZ-33**	Water	03/04/21 14:05	03/05/21 13:10
92525919015	**FB-1**	Water	03/04/21 08:30	03/05/21 13:10
92525919016	**PZ-15**	Water	03/04/21 10:46	03/05/21 13:10
92525919017	**PZ-7D**	Water	03/04/21 13:16	03/05/21 13:10
92525919018	**PZ-2D**	Water	03/08/21 15:34	03/09/21 09:40

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SAMPLE ANALYTE COUNT

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525919001	**PZ-32**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525919002	**PZ-14**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525919003	**PZ-23A**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525919004	**DUP-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525919005	**EB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525919006	**PZ-1D**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525919007	**PZ-31**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525919008	**PZ-25**	EPA 6010D	KH	1
		EPA 6020B	CW1	10

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SAMPLE ANALYTE COUNT

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525919009	**DUP-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525919010	**PZ-19**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525919011	**PZ-17**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525919012	**PZ-18**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525919013	**PZ-16**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525919014	**PZ-33**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525919015	**FB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1

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SAMPLE ANALYTE COUNT

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	JLH	3
92525919016	**PZ-15**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525919017	**PZ-7D**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525919018	**PZ-2D**	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3

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

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SUMMARY OF DETECTION

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525919001	**PZ-32**					
	Performed by	CUSTOMER			03/22/21 08:53	
	pH	7.41	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	64.8	mg/L	1.0	03/12/21 21:58	M1
EPA 6020B	Barium	0.013	mg/L	0.0050	03/16/21 13:04	
EPA 6020B	Boron	0.022J	mg/L	0.040	03/16/21 13:04	
SM 2540C-2011	Total Dissolved Solids	166	mg/L	10.0	03/06/21 09:45	
EPA 300.0 Rev 2.1 1993	Chloride	2.2	mg/L	1.0	03/13/21 14:18	
EPA 300.0 Rev 2.1 1993	Sulfate	2.0	mg/L	1.0	03/13/21 14:18	
92525919002	**PZ-14**					
	Performed by	CUSTOMER			03/22/21 08:53	
	pH	6.99	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	114	mg/L	1.0	03/12/21 22:18	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/16/21 13:09	
EPA 6020B	Boron	0.028J	mg/L	0.040	03/16/21 13:09	
EPA 6020B	Chromium	0.00097J	mg/L	0.0050	03/16/21 13:09	
SM 2540C-2011	Total Dissolved Solids	258	mg/L	10.0	03/06/21 09:45	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	03/13/21 14:33	
EPA 300.0 Rev 2.1 1993	Sulfate	8.8	mg/L	1.0	03/13/21 14:33	
92525919003	**PZ-23A**					
	Performed by	CUSTOMER			03/22/21 08:53	
	pH	6.79	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	154	mg/L	1.0	03/12/21 22:23	
EPA 6020B	Antimony	0.0017J	mg/L	0.0030	03/16/21 13:32	B
EPA 6020B	Barium	0.039	mg/L	0.0050	03/16/21 13:32	
EPA 6020B	Boron	0.16	mg/L	0.040	03/16/21 13:32	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	03/16/21 13:32	
EPA 6020B	Cobalt	0.00049J	mg/L	0.0050	03/16/21 13:32	
EPA 6020B	Lead	0.000058J	mg/L	0.0010	03/16/21 13:32	
EPA 6020B	Lithium	0.0010J	mg/L	0.030	03/16/21 13:32	
EPA 6020B	Selenium	0.0025J	mg/L	0.0050	03/16/21 13:32	
EPA 6020B	Thallium	0.00017J	mg/L	0.0010	03/16/21 13:32	
SM 2540C-2011	Total Dissolved Solids	444	mg/L	10.0	03/06/21 09:45	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	03/13/21 14:49	
EPA 300.0 Rev 2.1 1993	Sulfate	66.0	mg/L	1.0	03/13/21 14:49	
92525919004	**DUP-2**					
	Performed by	CUSTOMER			03/22/21 08:53	
	pH	6.79	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	153	mg/L	1.0	03/12/21 22:28	
EPA 6020B	Antimony	0.00057J	mg/L	0.0030	03/16/21 13:38	B
EPA 6020B	Barium	0.039	mg/L	0.0050	03/16/21 13:38	
EPA 6020B	Boron	0.17	mg/L	0.040	03/16/21 13:38	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	03/16/21 13:38	
EPA 6020B	Cobalt	0.00050J	mg/L	0.0050	03/16/21 13:38	

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SUMMARY OF DETECTION

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525919004	**DUP-2**					
EPA 6020B	Lead	0.00012J	mg/L	0.0010	03/16/21 13:38	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	03/16/21 13:38	
EPA 6020B	Selenium	0.0024J	mg/L	0.0050	03/16/21 13:38	
EPA 6020B	Thallium	0.00015J	mg/L	0.0010	03/16/21 13:38	
SM 2540C-2011	Total Dissolved Solids	434	mg/L	10.0	03/06/21 09:45	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	03/13/21 15:04	
EPA 300.0 Rev 2.1 1993	Sulfate	66.5	mg/L	1.0	03/13/21 15:04	
92525919005	**EB-1**					
EPA 6020B	Antimony	0.00032J	mg/L	0.0030	03/16/21 13:44	B
92525919006	**PZ-1D**					
	Performed by	CUSTOMER			03/22/21 08:53	
	pH	7.56	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	54.7	mg/L	1.0	03/12/21 22:37	
EPA 6020B	Antimony	0.00093J	mg/L	0.0030	03/16/21 14:01	B
EPA 6020B	Barium	0.015	mg/L	0.0050	03/16/21 14:01	
EPA 6020B	Boron	0.010J	mg/L	0.040	03/16/21 14:01	
EPA 6020B	Chromium	0.0018J	mg/L	0.0050	03/16/21 14:01	
EPA 6020B	Lead	0.000055J	mg/L	0.0010	03/16/21 14:01	
EPA 6020B	Molybdenum	0.00076J	mg/L	0.010	03/16/21 14:01	
SM 2540C-2011	Total Dissolved Solids	134	mg/L	10.0	03/06/21 09:46	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	03/13/21 16:06	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	03/13/21 16:06	
92525919007	**PZ-31**					
	Performed by	CUSTOMER			03/22/21 08:53	
	pH	7.14	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	104	mg/L	1.0	03/12/21 22:42	
EPA 6020B	Barium	0.0069	mg/L	0.0050	03/16/21 14:07	
EPA 6020B	Boron	0.0087J	mg/L	0.040	03/16/21 14:07	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	03/16/21 14:07	
SM 2540C-2011	Total Dissolved Solids	264	mg/L	10.0	03/06/21 09:46	
EPA 300.0 Rev 2.1 1993	Chloride	3.1	mg/L	1.0	03/13/21 16:22	
EPA 300.0 Rev 2.1 1993	Sulfate	0.60J	mg/L	1.0	03/13/21 16:22	
92525919008	**PZ-25**					
	Performed by	CUSTOMER			03/22/21 08:53	
	pH	7.04	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	96.8	mg/L	1.0	03/12/21 22:56	
EPA 6020B	Barium	0.12	mg/L	0.0050	03/16/21 14:12	
EPA 6020B	Boron	0.20	mg/L	0.040	03/16/21 14:12	
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	03/16/21 14:12	
EPA 6020B	Lithium	0.0061J	mg/L	0.030	03/16/21 14:12	
EPA 6020B	Thallium	0.00036J	mg/L	0.0010	03/16/21 14:12	
SM 2540C-2011	Total Dissolved Solids	267	mg/L	10.0	03/06/21 13:08	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/13/21 16:37	

Pace Analytical Services, LLC
110 Technology Parkway
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SUMMARY OF DETECTION

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525919008	**PZ-25**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	03/13/21 16:37	
EPA 300.0 Rev 2.1 1993	Sulfate	39.2	mg/L	1.0	03/13/21 16:37	
92525919009	**DUP-1**					
	Performed by	CUSTOMER			03/22/21 08:53	
	pH	7.04	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	90.9	mg/L	1.0	03/12/21 23:01	
EPA 6020B	Barium	0.12	mg/L	0.0050	03/16/21 14:18	
EPA 6020B	Boron	0.20	mg/L	0.040	03/16/21 14:18	
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	03/16/21 14:18	
EPA 6020B	Lithium	0.0061J	mg/L	0.030	03/16/21 14:18	
EPA 6020B	Thallium	0.00036J	mg/L	0.0010	03/16/21 14:18	
SM 2540C-2011	Total Dissolved Solids	256	mg/L	10.0	03/06/21 13:09	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/13/21 16:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	03/13/21 16:53	
EPA 300.0 Rev 2.1 1993	Sulfate	39.2	mg/L	1.0	03/13/21 16:53	M1
92525919010	**PZ-19**					
	Performed by	CUSTOMER			03/22/21 08:53	
	pH	6.78	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	142	mg/L	1.0	03/12/21 23:06	
EPA 6020B	Barium	0.055	mg/L	0.0050	03/16/21 14:24	
EPA 6020B	Boron	0.50	mg/L	0.040	03/16/21 14:24	
EPA 6020B	Lithium	0.015J	mg/L	0.030	03/16/21 14:24	
EPA 6020B	Molybdenum	0.0021J	mg/L	0.010	03/16/21 14:24	
EPA 6020B	Selenium	0.0033J	mg/L	0.0050	03/16/21 14:24	
EPA 6020B	Thallium	0.00072J	mg/L	0.0010	03/16/21 14:24	
SM 2540C-2011	Total Dissolved Solids	452	mg/L	10.0	03/06/21 13:09	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	03/13/21 17:39	
EPA 300.0 Rev 2.1 1993	Fluoride	0.058J	mg/L	0.10	03/13/21 17:39	
EPA 300.0 Rev 2.1 1993	Sulfate	80.8	mg/L	1.0	03/13/21 17:39	
92525919011	**PZ-17**					
	Performed by	CUSTOMER			03/22/21 08:53	
	pH	7.09	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	113	mg/L	1.0	03/12/21 23:11	
EPA 6020B	Antimony	0.00055J	mg/L	0.0030	03/16/21 14:30	B
EPA 6020B	Barium	0.071	mg/L	0.0050	03/16/21 14:30	
EPA 6020B	Boron	0.22	mg/L	0.040	03/16/21 14:30	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	03/16/21 14:30	
EPA 6020B	Thallium	0.00039J	mg/L	0.0010	03/16/21 14:30	
SM 2540C-2011	Total Dissolved Solids	325	mg/L	10.0	03/08/21 11:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	03/15/21 05:19	
EPA 300.0 Rev 2.1 1993	Sulfate	66.8	mg/L	1.0	03/15/21 05:19	

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Peachtree Corners, GA 30092
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SUMMARY OF DETECTION

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525919012	**PZ-18**					
	Performed by	CUSTOMER			03/22/21 08:53	
	pH	6.91	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	138	mg/L	1.0	03/12/21 23:16	
EPA 6020B	Barium	0.023	mg/L	0.0050	03/16/21 14:35	
EPA 6020B	Boron	0.37	mg/L	0.040	03/16/21 14:35	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	03/16/21 14:35	
SM 2540C-2011	Total Dissolved Solids	427	mg/L	10.0	03/08/21 11:07	
EPA 300.0 Rev 2.1 1993	Chloride	5.1	mg/L	1.0	03/15/21 05:34	
EPA 300.0 Rev 2.1 1993	Sulfate	88.6	mg/L	1.0	03/15/21 05:34	
92525919013	**PZ-16**					
	Performed by	CUSTOMER			03/22/21 08:53	
	pH	7.34	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	90.9	mg/L	1.0	03/12/21 23:21	
EPA 6020B	Barium	0.035	mg/L	0.0050	03/16/21 14:41	
EPA 6020B	Boron	0.20	mg/L	0.040	03/16/21 14:41	
EPA 6020B	Chromium	0.0012J	mg/L	0.0050	03/16/21 14:41	
SM 2540C-2011	Total Dissolved Solids	264	mg/L	10.0	03/08/21 11:07	
EPA 300.0 Rev 2.1 1993	Chloride	5.9	mg/L	1.0	03/15/21 06:49	
EPA 300.0 Rev 2.1 1993	Sulfate	38.9	mg/L	1.0	03/15/21 06:49	
92525919014	**PZ-33**					
	Performed by	CUSTOMER			03/22/21 08:53	
	pH	7.22	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	106	mg/L	1.0	03/12/21 23:25	
EPA 6020B	Barium	0.047	mg/L	0.0050	03/16/21 14:47	
EPA 6020B	Boron	0.34	mg/L	0.040	03/16/21 14:47	
SM 2540C-2011	Total Dissolved Solids	283	mg/L	10.0	03/08/21 11:07	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	03/15/21 07:34	
EPA 300.0 Rev 2.1 1993	Sulfate	49.3	mg/L	1.0	03/15/21 07:34	
92525919016	**PZ-15**					
	Performed by	CUSTOMER			03/22/21 08:53	
	pH	7.09	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	107	mg/L	1.0	03/12/21 23:35	
EPA 6020B	Barium	0.047	mg/L	0.0050	03/16/21 15:16	
EPA 6020B	Boron	0.16	mg/L	0.040	03/16/21 15:16	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	03/16/21 15:16	
EPA 6020B	Thallium	0.00022J	mg/L	0.0010	03/16/21 15:16	
SM 2540C-2011	Total Dissolved Solids	300	mg/L	10.0	03/08/21 11:08	
EPA 300.0 Rev 2.1 1993	Chloride	6.3	mg/L	1.0	03/15/21 08:04	
EPA 300.0 Rev 2.1 1993	Sulfate	74.1	mg/L	1.0	03/15/21 08:04	
92525919017	**PZ-7D**					
	Performed by	CUSTOMER			03/22/21 08:53	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525919017	**PZ-7D**					
	pH	6.95	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	122	mg/L	1.0	03/12/21 23:49	
EPA 6020B	Barium	0.0061	mg/L	0.0050	03/16/21 15:22	
EPA 6020B	Boron	0.20	mg/L	0.040	03/16/21 15:22	
EPA 6020B	Chromium	0.0024J	mg/L	0.0050	03/16/21 15:22	
EPA 6020B	Lead	0.000041J	mg/L	0.0010	03/16/21 15:22	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	03/16/21 15:22	
EPA 6020B	Selenium	0.0018J	mg/L	0.0050	03/16/21 15:22	
SM 2540C-2011	Total Dissolved Solids	335	mg/L	10.0	03/08/21 11:08	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	03/15/21 08:19	
EPA 300.0 Rev 2.1 1993	Sulfate	49.7	mg/L	1.0	03/15/21 08:19	
92525919018	**PZ-2D**					
	Performed by	CUSTOMER			03/22/21 08:53	
	pH	7.77	Std. Units		03/22/21 08:53	
EPA 6010D	Calcium	41.7	mg/L	1.0	03/12/21 23:54	
EPA 6020B	Antimony	0.00030J	mg/L	0.0030	03/16/21 15:27	B
EPA 6020B	Barium	0.0065	mg/L	0.0050	03/16/21 15:27	
EPA 6020B	Boron	0.013J	mg/L	0.040	03/16/21 15:27	
EPA 6020B	Chromium	0.0028J	mg/L	0.0050	03/16/21 15:27	
EPA 6020B	Lead	0.000062J	mg/L	0.0010	03/16/21 15:27	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	03/16/21 15:27	
SM 2540C-2011	Total Dissolved Solids	126	mg/L	10.0	03/10/21 17:21	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	03/16/21 08:56	
EPA 300.0 Rev 2.1 1993	Sulfate	2.7	mg/L	1.0	03/16/21 08:56	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: PZ-32 **Lab ID: 92525919001** Collected: 03/03/21 10:15 Received: 03/05/21 09:45 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		03/22/21 08:53		
pH	**7.41**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**64.8**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 21:58	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 12:22	03/16/21 13:04	7440-36-0	
Barium	**0.013**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 13:04	7440-39-3	
Boron	**0.022J**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 13:04	7440-42-8	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 13:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 13:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 13:04	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 13:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 13:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 13:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 13:04	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	03/08/21 09:00	03/08/21 16:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**166**	mg/L	10.0	10.0	1		03/06/21 09:45		
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		03/13/21 14:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 14:18	16984-48-8	
Sulfate	**2.0**	mg/L	1.0	0.50	1		03/13/21 14:18	14808-79-8	

ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: PZ-14 **Lab ID: 92525919002** Collected: 03/03/21 13:20 Received: 03/05/21 09:45 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		03/22/21 08:53		
pH	**6.99**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**114**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 22:18	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	0.00028	1	03/12/21 12:22	03/16/21 13:09	7440-36-0	
Barium	**0.017**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 13:09	7440-39-3	
Boron	**0.028J**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 13:09	7440-42-8	
Chromium	**0.00097J**	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 13:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 13:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 13:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 13:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 13:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 13:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 13:09	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	03/08/21 09:00	03/08/21 16:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**258**	mg/L	10.0	10.0	1		03/06/21 09:45		
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		03/13/21 14:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 14:33	16984-48-8	
Sulfate	**8.8**	mg/L	1.0	0.50	1		03/13/21 14:33	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: PZ-23A **Lab ID: 92525919003** Collected: 03/03/21 16:15 Received: 03/05/21 09:45 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		03/22/21 08:53		
pH	**6.79**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**154**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 22:23	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0017J**	mg/L	0.0030	0.00028	1	03/12/21 12:22	03/16/21 13:32	7440-36-0	B
Barium	**0.039**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 13:32	7440-39-3	
Boron	**0.16**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 13:32	7440-42-8	
Chromium	**0.0015J**	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 13:32	7440-47-3	
Cobalt	**0.00049J**	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 13:32	7440-48-4	
Lead	**0.000058J**	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 13:32	7439-92-1	
Lithium	**0.0010J**	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 13:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 13:32	7439-98-7	
Selenium	**0.0025J**	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 13:32	7782-49-2	
Thallium	**0.00017J**	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 13:32	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	03/08/21 09:00	03/08/21 16:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**444**	mg/L	10.0	10.0	1		03/06/21 09:45		
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		03/13/21 14:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 14:49	16984-48-8	
Sulfate	**66.0**	mg/L	1.0	0.50	1		03/13/21 14:49	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: DUP-2 **Lab ID: 92525919004** Collected: 03/03/21 00:00 Received: 03/05/21 09:45 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		03/22/21 08:53		
pH	**6.79**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**153**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 22:28	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00057J**	mg/L	0.0030	0.00028	1	03/12/21 12:22	03/16/21 13:38	7440-36-0	B
Barium	**0.039**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 13:38	7440-39-3	
Boron	**0.17**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 13:38	7440-42-8	
Chromium	**0.0015J**	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 13:38	7440-47-3	
Cobalt	**0.00050J**	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 13:38	7440-48-4	
Lead	**0.00012J**	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 13:38	7439-92-1	
Lithium	**0.0011J**	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 13:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 13:38	7439-98-7	
Selenium	**0.0024J**	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 13:38	7782-49-2	
Thallium	**0.00015J**	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 13:38	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	03/08/21 09:00	03/08/21 16:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**434**	mg/L	10.0	10.0	1		03/06/21 09:45		
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		03/13/21 15:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 15:04	16984-48-8	
Sulfate	**66.5**	mg/L	1.0	0.50	1		03/13/21 15:04	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: EB-1 **Lab ID: 92525919005** Collected: 03/03/21 09:55 Received: 03/05/21 09:45 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	0.070	1	03/12/21 12:18	03/12/21 22:33	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00032J**	mg/L	0.0030	0.00028	1	03/12/21 12:22	03/16/21 13:44	7440-36-0	B
Barium	ND	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 13:44	7440-39-3	
Boron	ND	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 13:44	7440-42-8	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 13:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 13:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 13:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 13:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 13:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 13:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 13:44	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	03/08/21 09:00	03/08/21 17:02	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		03/06/21 09:46		
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		03/13/21 15:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 15:51	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/13/21 15:51	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: PZ-1D | **Lab ID: 92525919006** | Collected: 03/03/21 11:15 | Received: 03/05/21 09:45 | 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		03/22/21 08:53		
pH	**7.56**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**54.7**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 22:37	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00093J**	mg/L	0.0030	0.00028	1	03/12/21 12:22	03/16/21 14:01	7440-36-0	B
Barium	**0.015**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 14:01	7440-39-3	
Boron	**0.010J**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 14:01	7440-42-8	
Chromium	**0.0018J**	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 14:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 14:01	7440-48-4	
Lead	**0.000055J**	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 14:01	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 14:01	7439-93-2	
Molybdenum	**0.00076J**	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 14:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 14:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 14:01	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	03/08/21 09:00	03/08/21 17:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**134**	mg/L	10.0	10.0	1		03/06/21 09:46		
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		03/13/21 16:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 16:06	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	0.50	1		03/13/21 16:06	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: PZ-31 | **Lab ID: 92525919007** | Collected: 03/03/21 13:40 | Received: 03/05/21 09:45 | 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		03/22/21 08:53		
pH	**7.14**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**104**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 22:42	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	0.00028	1	03/12/21 12:22	03/16/21 14:07	7440-36-0	
Barium	**0.0069**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 14:07	7440-39-3	
Boron	**0.0087J**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 14:07	7440-42-8	
Chromium	**0.0015J**	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 14:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 14:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 14:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 14:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 14:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 14:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 14:07	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	03/10/21 13:05	03/11/21 11:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**264**	mg/L	10.0	10.0	1		03/06/21 09:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.1**	mg/L	1.0	0.60	1		03/13/21 16:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 16:22	16984-48-8	
Sulfate	**0.60J**	mg/L	1.0	0.50	1		03/13/21 16:22	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: PZ-25 **Lab ID: 92525919008** Collected: 03/03/21 13:46 Received: 03/05/21 09:45 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		03/22/21 08:53		
pH	**7.04**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**96.8**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 22:56	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	0.00028	1	03/12/21 12:22	03/16/21 14:12	7440-36-0	
Barium	**0.12**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 14:12	7440-39-3	
Boron	**0.20**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 14:12	7440-42-8	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 14:12	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 14:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 14:12	7439-92-1	
Lithium	**0.0061J**	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 14:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 14:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 14:12	7782-49-2	
Thallium	**0.00036J**	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 14:12	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	03/10/21 13:05	03/11/21 11:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**267**	mg/L	10.0	10.0	1		03/06/21 13:08		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.6**	mg/L	1.0	0.60	1		03/13/21 16:37	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		03/13/21 16:37	16984-48-8	
Sulfate	**39.2**	mg/L	1.0	0.50	1		03/13/21 16:37	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: DUP-1 **Lab ID: 92525919009** Collected: 03/03/21 00:00 Received: 03/05/21 09:45 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		03/22/21 08:53		
pH	**7.04**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**90.9**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 23:01	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	0.00028	1	03/12/21 12:22	03/16/21 14:18	7440-36-0	
Barium	**0.12**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 14:18	7440-39-3	
Boron	**0.20**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 14:18	7440-42-8	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 14:18	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 14:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 14:18	7439-92-1	
Lithium	**0.0061J**	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 14:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 14:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 14:18	7782-49-2	
Thallium	**0.00036J**	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 14:18	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	03/10/21 13:05	03/11/21 11:51	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		03/06/21 13:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.6**	mg/L	1.0	0.60	1		03/13/21 16:53	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		03/13/21 16:53	16984-48-8	
Sulfate	**39.2**	mg/L	1.0	0.50	1		03/13/21 16:53	14808-79-8	M1

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: PZ-19 **Lab ID: 92525919010** Collected: 03/03/21 16:00 Received: 03/05/21 09:45 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		03/22/21 08:53		
pH	**6.78**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**142**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 23:06	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	0.00028	1	03/12/21 12:22	03/16/21 14:24	7440-36-0	
Barium	**0.055**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 14:24	7440-39-3	
Boron	**0.50**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 14:24	7440-42-8	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 14:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 14:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 14:24	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 14:24	7439-93-2	
Molybdenum	**0.0021J**	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 14:24	7439-98-7	
Selenium	**0.0033J**	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 14:24	7782-49-2	
Thallium	**0.00072J**	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 14:24	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	03/10/21 13:05	03/11/21 11:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**452**	mg/L	10.0	10.0	1		03/06/21 13:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.0**	mg/L	1.0	0.60	1		03/13/21 17:39	16887-00-6	
Fluoride	**0.058J**	mg/L	0.10	0.050	1		03/13/21 17:39	16984-48-8	
Sulfate	**80.8**	mg/L	1.0	0.50	1		03/13/21 17:39	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: PZ-17 **Lab ID: 92525919011** Collected: 03/04/21 10:00 Received: 03/05/21 13:10 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		03/22/21 08:53		
pH	**7.09**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**113**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 23:11	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00055J**	mg/L	0.0030	0.00028	1	03/12/21 12:22	03/16/21 14:30	7440-36-0	B
Barium	**0.071**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 14:30	7440-39-3	
Boron	**0.22**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 14:30	7440-42-8	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 14:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 14:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 14:30	7439-92-1	
Lithium	**0.0020J**	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 14:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 14:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 14:30	7782-49-2	
Thallium	**0.00039J**	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 14:30	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	03/16/21 14:45	03/17/21 09:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**325**	mg/L	10.0	10.0	1		03/08/21 11:07		
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		03/15/21 05:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 05:19	16984-48-8	
Sulfate	**66.8**	mg/L	1.0	0.50	1		03/15/21 05:19	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: PZ-18 **Lab ID: 92525919012** Collected: 03/04/21 11:05 Received: 03/05/21 13:10 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		03/22/21 08:53		
pH	**6.91**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**138**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 23:16	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	0.00028	1	03/12/21 12:22	03/16/21 14:35	7440-36-0	
Barium	**0.023**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 14:35	7440-39-3	
Boron	**0.37**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 14:35	7440-42-8	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 14:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 14:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 14:35	7439-92-1	
Lithium	**0.0029J**	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 14:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 14:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 14:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 14:35	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	03/16/21 14:45	03/17/21 09:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**427**	mg/L	10.0	10.0	1		03/08/21 11:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.1**	mg/L	1.0	0.60	1		03/15/21 05:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 05:34	16984-48-8	
Sulfate	**88.6**	mg/L	1.0	0.50	1		03/15/21 05:34	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: PZ-16 **Lab ID: 92525919013** Collected: 03/04/21 11:15 Received: 03/05/21 13:10 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		03/22/21 08:53		
pH	**7.34**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**90.9**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 23:21	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	0.00028	1	03/12/21 12:22	03/16/21 14:41	7440-36-0	
Barium	**0.035**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 14:41	7440-39-3	
Boron	**0.20**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 14:41	7440-42-8	
Chromium	**0.0012J**	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 14:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 14:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 14:41	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 14:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 14:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 14:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 14:41	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	03/16/21 14:45	03/17/21 09:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**264**	mg/L	10.0	10.0	1		03/08/21 11:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.9**	mg/L	1.0	0.60	1		03/15/21 06:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 06:49	16984-48-8	
Sulfate	**38.9**	mg/L	1.0	0.50	1		03/15/21 06:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: PZ-33 **Lab ID: 92525919014** Collected: 03/04/21 14:05 Received: 03/05/21 13:10 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		03/22/21 08:53		
pH	**7.22**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**106**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 23:25	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	0.00028	1	03/12/21 12:22	03/16/21 14:47	7440-36-0	
Barium	**0.047**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 14:47	7440-39-3	
Boron	**0.34**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 14:47	7440-42-8	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 14:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 14:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 14:47	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 14:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 14:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 14:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 14:47	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	03/16/21 14:45	03/17/21 09:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**283**	mg/L	10.0	10.0	1		03/08/21 11:07		
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		03/15/21 07:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 07:34	16984-48-8	
Sulfate	**49.3**	mg/L	1.0	0.50	1		03/15/21 07:34	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: FB-1 **Lab ID: 92525919015** Collected: 03/04/21 08:30 Received: 03/05/21 13:10 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	0.070	1	03/12/21 12:18	03/12/21 23:30	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	0.00028	1	03/12/21 12:22	03/16/21 14:53	7440-36-0	
Barium	ND	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 14:53	7440-39-3	
Boron	ND	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 14:53	7440-42-8	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 14:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 14:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 14:53	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 14:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 14:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 14:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 14:53	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	03/16/21 14:45	03/17/21 09:52	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		03/08/21 11:07		
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		03/15/21 07:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 07:49	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/15/21 07:49	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: PZ-15 **Lab ID: 92525919016** Collected: 03/04/21 10:46 Received: 03/05/21 13:10 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		03/22/21 08:53		
pH	**7.09**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**107**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 23:35	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	0.00028	1	03/12/21 12:22	03/16/21 15:16	7440-36-0	
Barium	**0.047**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 15:16	7440-39-3	
Boron	**0.16**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 15:16	7440-42-8	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 15:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 15:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 15:16	7439-92-1	
Lithium	**0.0014J**	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 15:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 15:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 15:16	7782-49-2	
Thallium	**0.00022J**	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 15:16	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	03/16/21 14:45	03/17/21 09:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**300**	mg/L	10.0	10.0	1		03/08/21 11:08		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.3**	mg/L	1.0	0.60	1		03/15/21 08:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 08:04	16984-48-8	
Sulfate	**74.1**	mg/L	1.0	0.50	1		03/15/21 08:04	14808-79-8	

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: PZ-7D **Lab ID: 92525919017** Collected: 03/04/21 13:16 Received: 03/05/21 13:10 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		03/22/21 08:53		
pH	**6.95**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**122**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 23:49	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	0.00028	1	03/12/21 12:22	03/16/21 15:22	7440-36-0	
Barium	**0.0061**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 15:22	7440-39-3	
Boron	**0.20**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 15:22	7440-42-8	
Chromium	**0.0024J**	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 15:22	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 15:22	7440-48-4	
Lead	**0.000041J**	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 15:22	7439-92-1	
Lithium	**0.0031J**	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 15:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 15:22	7439-98-7	
Selenium	**0.0018J**	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 15:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 15:22	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	03/16/21 14:45	03/17/21 10:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**335**	mg/L	10.0	10.0	1		03/08/21 11:08		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.0**	mg/L	1.0	0.60	1		03/15/21 08:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 08:19	16984-48-8	
Sulfate	**49.7**	mg/L	1.0	0.50	1		03/15/21 08:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Sample: PZ-2D **Lab ID: 92525919018** Collected: 03/08/21 15:34 Received: 03/09/21 09:40 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		03/22/21 08:53		
pH	**7.77**	Std. Units			1		03/22/21 08:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**41.7**	mg/L	1.0	0.070	1	03/12/21 12:18	03/12/21 23:54	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00030J**	mg/L	0.0030	0.00028	1	03/12/21 12:22	03/16/21 15:27	7440-36-0	B
Barium	**0.0065**	mg/L	0.0050	0.00071	1	03/12/21 12:22	03/16/21 15:27	7440-39-3	
Boron	**0.013J**	mg/L	0.040	0.0052	1	03/12/21 12:22	03/16/21 15:27	7440-42-8	
Chromium	**0.0028J**	mg/L	0.0050	0.00055	1	03/12/21 12:22	03/16/21 15:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 12:22	03/16/21 15:27	7440-48-4	
Lead	**0.000062J**	mg/L	0.0010	0.000036	1	03/12/21 12:22	03/16/21 15:27	7439-92-1	
Lithium	**0.0019J**	mg/L	0.030	0.00081	1	03/12/21 12:22	03/16/21 15:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 12:22	03/16/21 15:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 12:22	03/16/21 15:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/12/21 12:22	03/16/21 15:27	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	03/16/21 14:45	03/17/21 10:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**126**	mg/L	10.0	10.0	1		03/10/21 17:21		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		03/16/21 08:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/16/21 08:56	16984-48-8	
Sulfate	**2.7**	mg/L	1.0	0.50	1		03/16/21 08:56	14808-79-8	

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QUALITY CONTROL DATA

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

QC Batch: 606048 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525919001, 92525919002, 92525919003, 92525919004, 92525919005, 92525919006, 92525919007, 92525919008, 92525919009, 92525919010, 92525919011, 92525919012, 92525919013, 92525919014, 92525919015, 92525919016, 92525919017, 92525919018

METHOD BLANK: 3193025 Matrix: Water

Associated Lab Samples: 92525919001, 92525919002, 92525919003, 92525919004, 92525919005, 92525919006, 92525919007, 92525919008, 92525919009, 92525919010, 92525919011, 92525919012, 92525919013, 92525919014, 92525919015, 92525919016, 92525919017, 92525919018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	0.12J	1.0	0.070	03/12/21 21:39	

LABORATORY CONTROL SAMPLE: 3193026

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193027 3193028

Parameter	Units	92525919001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	64.8	1	1	68.2	66.2	340	143	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

QC Batch: 606049
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525919001, 92525919002, 92525919003, 92525919004, 92525919005, 92525919006, 92525919007, 92525919008, 92525919009, 92525919010, 92525919011, 92525919012, 92525919013, 92525919014, 92525919015, 92525919016, 92525919017, 92525919018

METHOD BLANK: 3193041 Matrix: Water
Associated Lab Samples: 92525919001, 92525919002, 92525919003, 92525919004, 92525919005, 92525919006, 92525919007, 92525919008, 92525919009, 92525919010, 92525919011, 92525919012, 92525919013, 92525919014, 92525919015, 92525919016, 92525919017, 92525919018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00030J	0.0030	0.00028	03/16/21 12:52	
Barium	mg/L	ND	0.0050	0.00071	03/16/21 12:52	
Boron	mg/L	ND	0.040	0.0052	03/16/21 12:52	
Chromium	mg/L	ND	0.0050	0.00055	03/16/21 12:52	
Cobalt	mg/L	ND	0.0050	0.00038	03/16/21 12:52	
Lead	mg/L	ND	0.0010	0.000036	03/16/21 12:52	
Lithium	mg/L	ND	0.030	0.00081	03/16/21 12:52	
Molybdenum	mg/L	ND	0.010	0.00069	03/16/21 12:52	
Selenium	mg/L	ND	0.0050	0.0016	03/16/21 12:52	
Thallium	mg/L	ND	0.0010	0.00014	03/16/21 12:52	

LABORATORY CONTROL SAMPLE: 3193042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	0.93	93	80-120	
Chromium	mg/L	0.1	0.093	93	80-120	
Cobalt	mg/L	0.1	0.091	91	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.093	93	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193043 3193044

Parameter	Units	92525919002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	1	20	
Barium	mg/L	0.017	0.1	0.1	0.11	0.12	97	100	75-125	2	20	
Boron	mg/L	0.028J	1	1	0.90	1.0	88	98	75-125	11	20	
Chromium	mg/L	0.00097J	0.1	0.1	0.096	0.097	95	97	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.094	0.098	94	98	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193043 3193044

Parameter	Units	92525919002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/L	ND	0.1	0.1	0.095	0.094	95	94	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.091	0.097	90	97	75-125	7	20	
Molybdenum	mg/L	ND	0.1	0.1	0.099	0.10	99	102	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.099	97	98	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.093	95	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

QC Batch: 604664 — Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A — Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525919001, 92525919002, 92525919003, 92525919004, 92525919005, 92525919006

METHOD BLANK: 3185623 — Matrix: Water
Associated Lab Samples: 92525919001, 92525919002, 92525919003, 92525919004, 92525919005, 92525919006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/08/21 15:49	

LABORATORY CONTROL SAMPLE: 3185624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3185625 3185626

Parameter	Units	92524831021 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	0.0022	0.0019	86	78	75-125	10	20	

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QUALITY CONTROL DATA

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

QC Batch: 605556
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525919007, 92525919008, 92525919009, 92525919010

METHOD BLANK: 3190111 Matrix: Water
Associated Lab Samples: 92525919007, 92525919008, 92525919009, 92525919010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/11/21 11:23	

LABORATORY CONTROL SAMPLE: 3190112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3190113 3190114

Parameter	Units	92526541001 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	0.0023	0.0024	91	94	75-125	3	20	

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QUALITY CONTROL DATA

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

QC Batch: 606880
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525919011, 92525919012, 92525919013, 92525919014, 92525919015, 92525919016, 92525919017, 92525919018

METHOD BLANK: 3197255 Matrix: Water
Associated Lab Samples: 92525919011, 92525919012, 92525919013, 92525919014, 92525919015, 92525919016, 92525919017, 92525919018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/17/21 09:31	

LABORATORY CONTROL SAMPLE: 3197256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3197257 3197258

Parameter	Units	92525919012 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	0.0024	0.0025	95	99	75-125	4	20	

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QUALITY CONTROL DATA

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

QC Batch: 604754
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: 92525919001, 92525919002, 92525919003, 92525919004, 92525919005, 92525919006, 92525919007

METHOD BLANK: 3186276 Matrix: Water
Associated Lab Samples: 92525919001, 92525919002, 92525919003, 92525919004, 92525919005, 92525919006, 92525919007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 09:43	

LABORATORY CONTROL SAMPLE: 3186277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	90-111	

SAMPLE DUPLICATE: 3186278

Parameter	Units	92525375007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	288	277	4	10	

SAMPLE DUPLICATE: 3186279

Parameter	Units	92525662002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1050	1010	4	10	

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QUALITY CONTROL DATA

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

QC Batch: 604764
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: 92525919008, 92525919009, 92525919010

METHOD BLANK: 3186295 Matrix: Water
Associated Lab Samples: 92525919008, 92525919009, 92525919010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 13:06	

LABORATORY CONTROL SAMPLE: 3186296

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	368	92	90-111	

SAMPLE DUPLICATE: 3186298

Parameter	Units	92525335021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	102	101	1	10	

SAMPLE DUPLICATE: 3186336

Parameter	Units	92525919008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	267	283	6	10	

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QUALITY CONTROL DATA

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

QC Batch: 604895 | Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525919011, 92525919012, 92525919013, 92525919014, 92525919015, 92525919016, 92525919017

METHOD BLANK: 3186921 | Matrix: Water
Associated Lab Samples: 92525919011, 92525919012, 92525919013, 92525919014, 92525919015, 92525919016, 92525919017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/08/21 11:05	

LABORATORY CONTROL SAMPLE: 3186922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	90-111	

SAMPLE DUPLICATE: 3186923

Parameter	Units	92526103001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	154	311	68	10	D6

SAMPLE DUPLICATE: 3186924

Parameter	Units	92525936007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	856	878	3	10	

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QUALITY CONTROL DATA

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

QC Batch:	605516	Analysis Method:	SM 2540C-2011
QC Batch Method:	SM 2540C-2011	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525919018

METHOD BLANK: 3189891 Matrix: Water

Associated Lab Samples: 92525919018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/10/21 17:21	

LABORATORY CONTROL SAMPLE: 3189892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	370	92	90-111	

SAMPLE DUPLICATE: 3189893

Parameter	Units	92524831026 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L		800			

SAMPLE DUPLICATE: 3189894

Parameter	Units	92526337002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	415	425	2	10	

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QUALITY CONTROL DATA

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

QC Batch: 606455 | Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 | Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525919001, 92525919002, 92525919003, 92525919004, 92525919005, 92525919006, 92525919007, 92525919008, 92525919009, 92525919010

METHOD BLANK: 3195134 Matrix: Water

Associated Lab Samples: 92525919001, 92525919002, 92525919003, 92525919004, 92525919005, 92525919006, 92525919007, 92525919008, 92525919009, 92525919010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/21 12:45	
Fluoride	mg/L	ND	0.10	0.050	03/13/21 12:45	
Sulfate	mg/L	ND	1.0	0.50	03/13/21 12:45	

LABORATORY CONTROL SAMPLE: 3195135

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	52.8	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195136 3195137

Parameter	Units	92525912007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	50.5	51.0	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	102	103	90-110	1	10	
Sulfate	mg/L	ND	50	50	53.6	54.2	107	108	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195138 3195139

Parameter	Units	92525919009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.6	50	50	54.1	53.7	105	104	90-110	1	10	
Fluoride	mg/L	0.12	2.5	2.5	2.8	2.8	106	105	90-110	1	10	
Sulfate	mg/L	39.2	50	50	95.4	95.1	112	112	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

QC Batch: 606496
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: 92525919011, 92525919012

METHOD BLANK: 3195315 Matrix: Water
Associated Lab Samples: 92525919011, 92525919012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/14/21 21:28	
Fluoride	mg/L	ND	0.10	0.050	03/14/21 21:28	
Sulfate	mg/L	ND	1.0	0.50	03/14/21 21:28	

LABORATORY CONTROL SAMPLE: 3195316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.5	93	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	46.8	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195317 3195318

Parameter	Units	92525931004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.8	50	50	50.1	49.8	97	96	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	111	111	90-110	0	10	M1
Sulfate	mg/L	61.7	50	50	98.6	98.0	74	73	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195319 3195320

Parameter	Units	92525936002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	22.9	50	50	67.6	70.1	89	94	90-110	4	10	M1
Fluoride	mg/L	0.14	2.5	2.5	2.4	2.6	91	97	90-110	6	10	
Sulfate	mg/L	91.7	50	50	126	124	70	65	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

QC Batch: 606497 | Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 | Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92525919013, 92525919014, 92525919015, 92525919016, 92525919017

METHOD BLANK: 3195321 Matrix: Water
Associated Lab Samples: 92525919013, 92525919014, 92525919015, 92525919016, 92525919017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/15/21 05:49	
Fluoride	mg/L	ND	0.10	0.050	03/15/21 05:49	
Sulfate	mg/L	ND	1.0	0.50	03/15/21 05:49	

LABORATORY CONTROL SAMPLE: 3195322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.1	92	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	45.3	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195323 3195324

Parameter	Units	92525919013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.9	50	50	56.7	55.0	102	98	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.4	99	97	90-110	3	10	
Sulfate	mg/L	38.9	50	50	90.2	88.6	103	99	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195325 3195326

Parameter	Units	92525657006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.8	50	50	55.5	56.0	100	100	90-110	1	10	
Fluoride	mg/L	0.076J	2.5	2.5	2.6	2.7	103	103	90-110	0	10	
Sulfate	mg/L	251	50	50	293	305	83	108	90-110	4	10	M6

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QUALITY CONTROL DATA

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

QC Batch: 606641 — Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 — Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92525919018

METHOD BLANK: 3196222 Matrix: Water
Associated Lab Samples: 92525919018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/16/21 04:09	
Fluoride	mg/L	ND	0.10	0.050	03/16/21 04:09	
Sulfate	mg/L	ND	1.0	0.50	03/16/21 04:09	

LABORATORY CONTROL SAMPLE: 3196223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	52.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196224 3196225

Parameter	Units	92527305006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2170	50	50	2220	2220	100	95	90-110	0	10	
Fluoride	mg/L				8.8	8.5				3	10	M6
Sulfate	mg/L				1800	1790				0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196226 3196227

Parameter	Units	92527315001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1620	50	50	1640	1650	49	61	90-110	0	10	M6
Fluoride	mg/L	ND	2.5	2.5	ND	ND	0	0	90-110		10	M6
Sulfate	mg/L	25.1	50	50	70.0	71.8	90	93	90-110	2	10	

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.

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

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.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525919001	**PZ-32**				
92525919002	**PZ-14**				
92525919003	**PZ-23A**				
92525919004	**DUP-2**				
92525919006	**PZ-1D**				
92525919007	**PZ-31**				
92525919008	**PZ-25**				
92525919009	**DUP-1**				
92525919010	**PZ-19**				
92525919011	**PZ-17**				
92525919012	**PZ-18**				
92525919013	**PZ-16**				
92525919014	**PZ-33**				
92525919016	**PZ-15**				
92525919017	**PZ-7D**				
92525919018	**PZ-2D**				
92525919001	**PZ-32**	EPA 3010A	606048	EPA 6010D	606359
92525919002	**PZ-14**	EPA 3010A	606048	EPA 6010D	606359
92525919003	**PZ-23A**	EPA 3010A	606048	EPA 6010D	606359
92525919004	**DUP-2**	EPA 3010A	606048	EPA 6010D	606359
92525919005	**EB-1**	EPA 3010A	606048	EPA 6010D	606359
92525919006	**PZ-1D**	EPA 3010A	606048	EPA 6010D	606359
92525919007	**PZ-31**	EPA 3010A	606048	EPA 6010D	606359
92525919008	**PZ-25**	EPA 3010A	606048	EPA 6010D	606359
92525919009	**DUP-1**	EPA 3010A	606048	EPA 6010D	606359
92525919010	**PZ-19**	EPA 3010A	606048	EPA 6010D	606359
92525919011	**PZ-17**	EPA 3010A	606048	EPA 6010D	606359
92525919012	**PZ-18**	EPA 3010A	606048	EPA 6010D	606359
92525919013	**PZ-16**	EPA 3010A	606048	EPA 6010D	606359
92525919014	**PZ-33**	EPA 3010A	606048	EPA 6010D	606359
92525919015	**FB-1**	EPA 3010A	606048	EPA 6010D	606359
92525919016	**PZ-15**	EPA 3010A	606048	EPA 6010D	606359
92525919017	**PZ-7D**	EPA 3010A	606048	EPA 6010D	606359
92525919018	**PZ-2D**	EPA 3010A	606048	EPA 6010D	606359
92525919001	**PZ-32**	EPA 3005A	606049	EPA 6020B	606371
92525919002	**PZ-14**	EPA 3005A	606049	EPA 6020B	606371
92525919003	**PZ-23A**	EPA 3005A	606049	EPA 6020B	606371
92525919004	**DUP-2**	EPA 3005A	606049	EPA 6020B	606371
92525919005	**EB-1**	EPA 3005A	606049	EPA 6020B	606371
92525919006	**PZ-1D**	EPA 3005A	606049	EPA 6020B	606371
92525919007	**PZ-31**	EPA 3005A	606049	EPA 6020B	606371
92525919008	**PZ-25**	EPA 3005A	606049	EPA 6020B	606371
92525919009	**DUP-1**	EPA 3005A	606049	EPA 6020B	606371
92525919010	**PZ-19**	EPA 3005A	606049	EPA 6020B	606371
92525919011	**PZ-17**	EPA 3005A	606049	EPA 6020B	606371
92525919012	**PZ-18**	EPA 3005A	606049	EPA 6020B	606371
92525919013	**PZ-16**	EPA 3005A	606049	EPA 6020B	606371
92525919014	**PZ-33**	EPA 3005A	606049	EPA 6020B	606371

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525919015	**FB-1**	EPA 3005A	606049	EPA 6020B	606371
92525919016	**PZ-15**	EPA 3005A	606049	EPA 6020B	606371
92525919017	**PZ-7D**	EPA 3005A	606049	EPA 6020B	606371
92525919018	**PZ-2D**	EPA 3005A	606049	EPA 6020B	606371
92525919001	**PZ-32**	EPA 7470A	604664	EPA 7470A	604885
92525919002	**PZ-14**	EPA 7470A	604664	EPA 7470A	604885
92525919003	**PZ-23A**	EPA 7470A	604664	EPA 7470A	604885
92525919004	**DUP-2**	EPA 7470A	604664	EPA 7470A	604885
92525919005	**EB-1**	EPA 7470A	604664	EPA 7470A	604885
92525919006	**PZ-1D**	EPA 7470A	604664	EPA 7470A	604885
92525919007	**PZ-31**	EPA 7470A	605556	EPA 7470A	605621
92525919008	**PZ-25**	EPA 7470A	605556	EPA 7470A	605621
92525919009	**DUP-1**	EPA 7470A	605556	EPA 7470A	605621
92525919010	**PZ-19**	EPA 7470A	605556	EPA 7470A	605621
92525919011	**PZ-17**	EPA 7470A	606880	EPA 7470A	606933
92525919012	**PZ-18**	EPA 7470A	606880	EPA 7470A	606933
92525919013	**PZ-16**	EPA 7470A	606880	EPA 7470A	606933
92525919014	**PZ-33**	EPA 7470A	606880	EPA 7470A	606933
92525919015	**FB-1**	EPA 7470A	606880	EPA 7470A	606933
92525919016	**PZ-15**	EPA 7470A	606880	EPA 7470A	606933
92525919017	**PZ-7D**	EPA 7470A	606880	EPA 7470A	606933
92525919018	**PZ-2D**	EPA 7470A	606880	EPA 7470A	606933
92525919001	**PZ-32**	SM 2540C-2011	604754		
92525919002	**PZ-14**	SM 2540C-2011	604754		
92525919003	**PZ-23A**	SM 2540C-2011	604754		
92525919004	**DUP-2**	SM 2540C-2011	604754		
92525919005	**EB-1**	SM 2540C-2011	604754		
92525919006	**PZ-1D**	SM 2540C-2011	604754		
92525919007	**PZ-31**	SM 2540C-2011	604754		
92525919008	**PZ-25**	SM 2540C-2011	604764		
92525919009	**DUP-1**	SM 2540C-2011	604764		
92525919010	**PZ-19**	SM 2540C-2011	604764		
92525919011	**PZ-17**	SM 2540C-2011	604895		
92525919012	**PZ-18**	SM 2540C-2011	604895		
92525919013	**PZ-16**	SM 2540C-2011	604895		
92525919014	**PZ-33**	SM 2540C-2011	604895		
92525919015	**FB-1**	SM 2540C-2011	604895		
92525919016	**PZ-15**	SM 2540C-2011	604895		
92525919017	**PZ-7D**	SM 2540C-2011	604895		
92525919018	**PZ-2D**	SM 2540C-2011	605516		
92525919001	**PZ-32**	EPA 300.0 Rev 2.1 1993	606455		
92525919002	**PZ-14**	EPA 300.0 Rev 2.1 1993	606455		
92525919003	**PZ-23A**	EPA 300.0 Rev 2.1 1993	606455		
92525919004	**DUP-2**	EPA 300.0 Rev 2.1 1993	606455		
92525919005	**EB-1**	EPA 300.0 Rev 2.1 1993	606455		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL SPRING 2021 SA
Pace Project No.: 92525919

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525919006	**PZ-1D**	EPA 300.0 Rev 2.1 1993	606455		
92525919007	**PZ-31**	EPA 300.0 Rev 2.1 1993	606455		
92525919008	**PZ-25**	EPA 300.0 Rev 2.1 1993	606455		
92525919009	**DUP-1**	EPA 300.0 Rev 2.1 1993	606455		
92525919010	**PZ-19**	EPA 300.0 Rev 2.1 1993	606455		
92525919011	**PZ-17**	EPA 300.0 Rev 2.1 1993	606496		
92525919012	**PZ-18**	EPA 300.0 Rev 2.1 1993	606496		
92525919013	**PZ-16**	EPA 300.0 Rev 2.1 1993	606497		
92525919014	**PZ-33**	EPA 300.0 Rev 2.1 1993	606497		
92525919015	**FB-1**	EPA 300.0 Rev 2.1 1993	606497		
92525919016	**PZ-15**	EPA 300.0 Rev 2.1 1993	606497		
92525919017	**PZ-7D**	EPA 300.0 Rev 2.1 1993	606497		
92525919018	**PZ-2D**	EPA 300.0 Rev 2.1 1993	606641		

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: GA Power - Wood G+I

Project #:

WO#: 92525919

92525919

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

8121 9394 5988

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

Date/Initials Person Examining Contents: 3/5/21 KRW

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

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

Thermometer: ☒ IR Gun ID: THR244

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 4.0 **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): 4.1

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. Standard
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:** ____

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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/Andreas Shoredits	Attention:	
Address:	1075 Big Shanty Road	Copy To:		Company Name:	
	Kennesaw, GA 30144			Address:	
Email:	daniel.howard2@woodplc.com	Purchase Order #:		Pace Quote:	
Phone:	(770)421-3382 Fax	Project Name:	Mitchell Spring 2021 Semi-Annual	Pace Project Manager:	kevin.herring@pacelabs.com
Requested Due Date:	Standard	Project #:	6122160170	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

Requested Analysis Filtered (Y/N)

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	Analyses Test Y/N	App III & IV Metals (N)	Cl, F, SO4 (N)	TDS (N)	RAD 9315/9320 (N)	Residual Chlorine (Y/N)	
1	~~PZ-1D~~ PZ-32	WT				3/3/21	1015		5	X		X							x	x	x	x		pH = 7.41
2	~~PZ-2D~~ PZ-14	WT				3/3/21	1320		5	X		X							x	x	x	x		pH = 6.99
3	~~PZ-3A~~ PZ-23A	WT				3/3/21	1615		5	X		X							x	x	x	x		pH = 6.79
4	~~PZ-32~~ DUP-2	WT				3/3/21	—		5	X		X							x	x	x	x		pH = 6.79
5	~~PZ-7D~~	WT																	x	x	x	x		
6	~~PZ-14~~	WT																	x	x	x	x		
7	~~PZ-15~~	WT																	x	x	x	x		
8	~~PZ-16~~	WT																	x	x	x	x		
9	~~PZ-17~~	WT																	x	x	x	x		
10	~~PZ-18~~	WT																	x	x	x	x		
11	~~PZ-10~~	WT																	x	x	x	x		
12	~~PZ-30A~~	WT																	x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
No As, Be, Cd	Daniel Howard / Wood	3/3/21	1815	[illegible] / Pace	3/5/21	0945	4.1	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed: 3/3/21

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/Andreas Shoredits	Attention:	
Address:	1075 Big Shanty Road	Copy To:		Company Name:	
	Kennesaw, GA 30144			Address:	
Email:	daniel.howard2@woodplc.com	Purchase Order #:		Pace Quote:	
Phone:	(770)421-3382 Fax	Project Name:	Mitchell Spring 2021 Semi-Annual	Pace Project Manager:	kevin.herring@pacelabs.com
Requested Due Date:	Standard	Project #:	6122160170	Pace Profile #:	10834

Regulatory Agency:

State / Location: GA

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

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

Requested Analysis Filtered (Y/N): App III & IV Metals N; Cl, F, SO4 N; TDS N; RAD 9315/9320 N

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	App III & IV Metals	Cl, F, SO4	TDS	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~[illegible]~~ EB-1	WT				3/3/21	0955		5	X		X						x	x	x	x		
2	~~[illegible]~~ PZ-1D	WT				3/3/21	1115		5	X		X						x	x	x	x		pH=7.56
3	~~[illegible]~~ PZ-31	WT				3/3/21	1340		5	X		X						x	x	x	x		pH=7.14
4	~~[illegible]~~	WT																x	x	x	x		
5	~~[illegible]~~	WT																x	x	x	x		
6	~~[illegible]~~	WT																x	x	x	x		
7	~~[illegible]~~	WT																x	x	x	x		
8	~~[illegible]~~	WT																x	x	x	x		
9	~~[illegible]~~	WT																x	x	x	x		
10	~~[illegible]~~	WT																x	x	x	x		
11	~~[illegible]~~	WT																x	x	x	x		
12	~~[illegible]~~	WT																x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
No As, Be, Cd	Daniel Howard / Wood	3/3/21	1815	[illegible] / Pace	3/5/21	0945	1.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed: 3/3/21

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

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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/Andreas Shoredits
Copy To:
Purchase Order #:
Project Name: Mitchell Spring 2021 Semi-Annual
Project #: 6122160170

Section C — Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10834

Regulatory Agency
State / Location: GA

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

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

Requested Analysis Filtered (Y/N): N N N N

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	App III & IV Metals	Cl, F, SO4	TDS	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~PZ-18~~ PZ-25	WT				3/3/21	1346		5	X		X						x	x	x	x		pH = 7.04
2	~~PZ-20~~ DUP-1	WT				3/3/21	—		5	X		X						x	x	x	x		pH = 7.04
3	~~PZ-21~~ PZ-19	WT				3/3/21	1600		5	X		X						x	x	x	x		pH = 6.78
4	~~PZ-22~~	WT																x	x	x	x		
5	~~PZ-7D~~	WT																x	x	x	x		
6	~~PZ-14~~	WT																x	x	x	x		
7	~~PZ-15~~	WT																x	x	x	x		
8	~~PZ-16~~	WT																x	x	x	x		
9	~~PZ-17~~	WT																x	x	x	x		
10	~~PZ-16~~	WT																x	x	x	x		
11	~~PZ-10~~	WT																x	x	x	x		
12	~~PZ-23A~~	WT																x	x	x	x		

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)
Ne, As, Be, Cd	Daniel Howard / Wood	3/3/21	1815	K. Wellington / Pace	3/5/21	0945	2.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Daniel Howard
SIGNATURE of SAMPLER: Daniel Howard
DATE Signed: 3/3/21

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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/Andreas Shoredits
Copy To: Rhonda Quinn
Rhonda.Quinn@woodplc.com
Purchase Order #:
Project Name: Mitchell Spring 2021 Semi-Annual
Project #: 6122160170

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@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	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III & IV Metals	Cl, F, SO4	TDS	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~PZ-15~~ PZ-17	WT				3/4/21	1000		5	X		X							x	x	x	x		pH = 7.09
2	~~PZ-20~~ PZ-18	WT				3/4/21	1105		5	X		X							x	x	x	x		pH = 6.91
3	~~PZ-31~~ PZ-16	WT				3/4/21	1115		5	X		X							x	x	x	x		pH = 7.34
4	~~PZ-32~~ PZ-33	WT				3/4/21	1405		5	X		X							x	x	x	x		pH = 7.22
5	~~PZ-7D~~	WT																	x	x	x	x		
6	~~PZ-14~~	WT																	x	x	x	x		
7	~~PZ-13~~	WT																	x	x	x	x		
8	~~PZ-16~~	WT																	x	x	x	x		
9	~~PZ-17~~	WT																	x	x	x	x		
10	~~PZ-18~~	WT																	x	x	x	x		
11	~~PZ-19~~	WT																	x	x	x	x		
12	~~[illegible]~~	WT																	x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
No As, Be, Cd	Daniel Howard / Wood	3/~~4~~5/21	1310	K. Wells / Pace	3/5/21	1310	3.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Daniel Howard
SIGNATURE of SAMPLER: Daniel L Howard
DATE Signed: 3/4/21

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

CHAIN-OF-CUSTODY / Analytical Request Document

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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/Andreas Shoredits
Copy To: Rhonda Quinn
Rhonda.Quinn@woodplc.com
Purchase Order #:
Project Name: Mitchell Spring 2021 Semi-Annual
Project #: 6122160170

Section C — Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10834

Regulatory Agency:

State / Location: GA

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

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

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	App III & IV Metals	Cl, F, SO4	TDS	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~[illegible]~~ FB-1	WT				3/4/21	0830		5	X		X							x	x	x	x		
2	~~[illegible]~~ PZ-15	WT				3/4/21	1046		5	X		X							x	x	x	x		pH = 7.09
3	~~[illegible]~~ PZ-7D	WT				3/4/21	1316		5	X		X							x	x	x	x		pH = 6.95
4	~~[illegible]~~	WT																	x	x	x	x		
5	~~[illegible]~~	WT																	x	x	x	x		
6	~~[illegible]~~	WT																	x	x	x	x		
7	~~[illegible]~~	WT																	x	x	x	x		
8	~~[illegible]~~	WT																	x	x	x	x		
9	~~[illegible]~~	WT																	x	x	x	x		
10	~~[illegible]~~	WT																	x	x	x	x		
11	~~[illegible]~~	WT																	x	x	x	x		
12	~~[illegible]~~	WT																	x	x	x	x		

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
No As, Be, Cd	Daniel Howard / Wood	3/4/21	1310	K Wellington / Pace	3/5/21	1310	J.8	Y	Y	Y
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel L Howard DATE Signed: 3/4/21

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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/Andreas Shoredits
- Copy To: Rhonda Quinn Rhonda.Quinn@Woodplc.com
- Purchase Order #:
- Project Name: Mitchell Spring 2021 Semi-Annual
- Project #: 6122160170

Section C — Invoice Information:
- Attention:
- Company Name:
- Address:
- Pace Quote:
- Pace Project Manager: kevin.herring@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

Requested Analysis Filtered (Y/N): N N N N

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	App III & IV Metals	Cl, F, SO4	TDS	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~[illegible]~~ PZ-2D	WT				3/8/21	1534		5	X		X						x	x	x	x		pH=7.77
2	~~PZ-2B~~	WT																x	x	x	x		
3	~~[illegible]~~	WT																x	x	x	x		
4	~~[illegible]~~	WT																x	x	x	x		
5	~~[illegible]~~	WT																x	x	x	x		
6	~~[illegible]~~	WT																x	x	x	x		
7	~~[illegible]~~	WT																x	x	x	x		
8	~~[illegible]~~	WT																x	x	x	x		
9	~~[illegible]~~	WT																x	x	x	x		
10	~~[illegible]~~	WT																x	x	x	x		
11	~~[illegible]~~	WT																x	x	x	x		
12	~~[illegible]~~	WT																x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
No As, Be, Cd	Daniel Howard/Wood	3/8/21	1745	Charlie [illegible]	3/9/21	0940	1.2	Y	Y	Y

SAMPLER NAME AND SIGNATURE
- PRINT Name of SAMPLER: Daniel Howard
- SIGNATURE of SAMPLER: Daniel Howard
- DATE Signed: 3/8/21

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

June 03, 2021

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

RE: Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Dear Michelle Barker:

Enclosed are the analytical results for sample(s) received by the laboratory between March 05, 2021 and March 09, 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,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

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

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

CERTIFICATIONS

Project:	MITCHELL SPRING 2021 SA RADS
Pace Project No.:	92525908

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
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525908001	**PZ-32**	Water	03/03/21 10:15	03/05/21 09:45
92525908002	**PZ-14**	Water	03/03/21 13:20	03/05/21 09:45
92525908003	**PZ-23A**	Water	03/03/21 16:15	03/05/21 09:45
92525908004	**DUP-2**	Water	03/03/21 00:00	03/05/21 09:45
92525908005	**EB-1**	Water	03/03/21 09:55	03/05/21 09:45
92525908006	**PZ-1D**	Water	03/03/21 11:15	03/05/21 09:45
92525908007	**PZ-31**	Water	03/03/21 13:40	03/05/21 09:45
92525908008	**PZ-25**	Water	03/03/21 13:46	03/05/21 09:45
92525908009	**DUP-1**	Water	03/03/21 00:00	03/05/21 09:45
92525908010	**PZ-19**	Water	03/03/21 16:00	03/05/21 09:45
92525908011	**PZ-17**	Water	03/04/21 10:00	03/05/21 13:10
92525908012	**PZ-18**	Water	03/04/21 11:05	03/05/21 13:10
92525908013	**PZ-16**	Water	03/04/21 11:15	03/05/21 13:10
92525908014	**PZ-33**	Water	03/04/21 14:05	03/05/21 13:10
92525908015	**FB-1**	Water	03/04/21 08:30	03/05/21 13:10
92525908016	**PZ-15**	Water	03/04/21 10:46	03/05/21 13:10
92525908017	**PZ-7D**	Water	03/04/21 13:16	03/05/21 13:10
92525908018	**PZ-2D**	Water	03/08/21 15:34	03/09/21 09:40

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

SAMPLE ANALYTE COUNT

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525908001	**PZ-32**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908002	**PZ-14**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908003	**PZ-23A**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908004	**DUP-2**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908005	**EB-1**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908006	**PZ-1D**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908007	**PZ-31**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908008	**PZ-25**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908009	**DUP-1**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908010	**PZ-19**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908011	**PZ-17**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908012	**PZ-18**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908013	**PZ-16**	EPA 9315	CLA	1	PASI-PA

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

SAMPLE ANALYTE COUNT

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908014	**PZ-33**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908015	**FB-1**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908016	**PZ-15**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908017	**PZ-7D**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525908018	**PZ-2D**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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

SUMMARY OF DETECTION

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525908001	**PZ-32**					
EPA 9315	Radium-226	-0.0519 ± 0.141 (0.400) C:71% T:NA	pCi/L		03/25/21 09:18	
EPA 9320	Radium-228	0.836 ± 0.476 (0.861) C:84% T:86%	pCi/L		03/24/21 19:00	
Total Radium Calculation	Total Radium	0.836 ± 0.617 (1.26)	pCi/L		03/27/21 10:21	
92525908002	**PZ-14**					
EPA 9315	Radium-226	0.192 ± 0.162 (0.305) C:79% T:NA	pCi/L		03/25/21 09:18	
EPA 9320	Radium-228	0.136 ± 0.425 (0.953) C:83% T:96%	pCi/L		03/24/21 19:00	
Total Radium Calculation	Total Radium	0.328 ± 0.587 (1.26)	pCi/L		03/27/21 10:21	
92525908003	**PZ-23A**					
EPA 9315	Radium-226	0.212 ± 0.143 (0.225) C:78% T:NA	pCi/L		03/25/21 09:44	
EPA 9320	Radium-228	0.798 ± 0.579 (1.14) C:83% T:77%	pCi/L		03/24/21 19:01	
Total Radium Calculation	Total Radium	1.01 ± 0.722 (1.37)	pCi/L		03/27/21 10:21	
92525908004	**DUP-2**					
EPA 9315	Radium-226	0.121 ± 0.108 (0.185) C:81% T:NA	pCi/L		03/25/21 09:44	
EPA 9320	Radium-228	0.503 ± 0.451 (0.909) C:81% T:82%	pCi/L		03/24/21 19:01	
Total Radium Calculation	Total Radium	0.624 ± 0.559 (1.09)	pCi/L		03/27/21 10:21	

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

SUMMARY OF DETECTION

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525908005	**EB-1**					
EPA 9315	Radium-226	0.00547 ± 0.0829 (0.229) C:77% T:NA	pCi/L		03/25/21 09:49	
EPA 9320	Radium-228	0.310 ± 0.472 (1.02) C:81% T:78%	pCi/L		03/24/21 19:35	
Total Radium Calculation	Total Radium	0.315 ± 0.555 (1.25)	pCi/L		03/27/21 10:21	
92525908006	**PZ-1D**					
EPA 9315	Radium-226	0.166 ± 0.127 (0.209) C:78% T:NA	pCi/L		03/25/21 09:44	
EPA 9320	Radium-228	0.749 ± 0.674 (1.39) C:83% T:85%	pCi/L		03/24/21 19:59	
Total Radium Calculation	Total Radium	0.915 ± 0.801 (1.60)	pCi/L		03/27/21 10:21	
92525908007	**PZ-31**					
EPA 9315	Radium-226	0.150 ± 0.130 (0.237) C:81% T:NA	pCi/L		03/25/21 09:18	
EPA 9320	Radium-228	0.757 ± 0.621 (1.25) C:82% T:84%	pCi/L		03/24/21 19:59	
Total Radium Calculation	Total Radium	0.907 ± 0.751 (1.49)	pCi/L		03/27/21 10:21	
92525908008	**PZ-25**					
EPA 9315	Radium-226	0.518 ± 0.225 (0.282) C:75% T:NA	pCi/L		03/25/21 09:49	
EPA 9320	Radium-228	0.0265 ± 0.585 (1.34) C:81% T:86%	pCi/L		03/24/21 19:59	
Total Radium Calculation	Total Radium	0.545 ± 0.810 (1.62)	pCi/L		03/27/21 10:21	

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

SUMMARY OF DETECTION

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525908009	**DUP-1**					
EPA 9315	Radium-226	0.292 ± 0.214 (0.410) C:78% T:NA	pCi/L		03/25/21 09:46	
EPA 9320	Radium-228	-0.0785 ± 0.669 (1.54) C:81% T:85%	pCi/L		03/24/21 19:59	
Total Radium Calculation	Total Radium	0.292 ± 0.883 (1.95)	pCi/L		03/27/21 10:21	
92525908010	**PZ-19**					
EPA 9315	Radium-226	0.297 ± 0.195 (0.337) C:73% T:NA	pCi/L		03/25/21 09:46	
EPA 9320	Radium-228	0.172 ± 0.345 (0.761) C:78% T:82%	pCi/L		03/24/21 16:46	
Total Radium Calculation	Total Radium	0.469 ± 0.540 (1.10)	pCi/L		03/27/21 10:21	
92525908011	**PZ-17**					
EPA 9315	Radium-226	0.0175 ± 0.0988 (0.256) C:80% T:NA	pCi/L		03/25/21 09:32	
EPA 9320	Radium-228	0.716 ± 0.585 (1.17) C:82% T:75%	pCi/L		03/24/21 18:58	
Total Radium Calculation	Total Radium	0.734 ± 0.684 (1.43)	pCi/L		03/27/21 10:21	
92525908012	**PZ-18**					
EPA 9315	Radium-226	0.0545 ± 0.120 (0.283) C:75% T:NA	pCi/L		03/25/21 09:17	
EPA 9320	Radium-228	0.443 ± 0.475 (0.985) C:79% T:86%	pCi/L		03/24/21 19:36	
Total Radium Calculation	Total Radium	0.498 ± 0.595 (1.27)	pCi/L		03/27/21 10:23	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525908013	**PZ-16**					
EPA 9315	Radium-226	0.105 ± 0.139 (0.299) C:80% T:NA	pCi/L		03/25/21 09:49	
EPA 9320	Radium-228	0.299 ± 0.413 (0.884) C:82% T:85%	pCi/L		03/24/21 18:59	
Total Radium Calculation	Total Radium	0.404 ± 0.552 (1.18)	pCi/L		03/27/21 10:23	
92525908014	**PZ-33**					
EPA 9315	Radium-226	0.124 ± 0.126 (0.242) C:81% T:NA	pCi/L		03/25/21 09:04	
EPA 9320	Radium-228	0.905 ± 0.488 (0.872) C:83% T:89%	pCi/L		03/24/21 18:59	
Total Radium Calculation	Total Radium	1.03 ± 0.614 (1.11)	pCi/L		03/27/21 10:23	
92525908015	**FB-1**					
EPA 9315	Radium-226	-0.00993 ± 0.138 (0.367) C:74% T:NA	pCi/L		03/25/21 09:17	
EPA 9320	Radium-228	0.186 ± 0.411 (0.912) C:83% T:84%	pCi/L		03/24/21 18:59	
Total Radium Calculation	Total Radium	0.186 ± 0.549 (1.28)	pCi/L		03/27/21 10:23	
92525908016	**PZ-15**					
EPA 9315	Radium-226	0.202 ± 0.160 (0.290) C:77% T:NA	pCi/L		03/25/21 09:17	
EPA 9320	Radium-228	0.472 ± 0.471 (0.973) C:83% T:87%	pCi/L		03/24/21 18:59	
Total Radium Calculation	Total Radium	0.674 ± 0.631 (1.26)	pCi/L		03/27/21 10:23	

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SUMMARY OF DETECTION

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525908017	**PZ-7D**					
EPA 9315	Radium-226	0.0803 ± 0.122 (0.267) C:81% T:NA	pCi/L		03/25/21 09:17	
EPA 9320	Radium-228	0.449 ± 0.416 (0.849) C:83% T:93%	pCi/L		03/24/21 19:00	
Total Radium Calculation	Total Radium	0.529 ± 0.538 (1.12)	pCi/L		03/27/21 10:23	
92525908018	**PZ-2D**					
EPA 9315	Radium-226	0.191 ± 0.119 (0.172) C:94% T:NA	pCi/L		03/26/21 08:09	
EPA 9320	Radium-228	0.284 ± 0.291 (0.600) C:87% T:92%	pCi/L		03/22/21 13:11	
Total Radium Calculation	Total Radium	0.475 ± 0.410 (0.772)	pCi/L		04/01/21 12:54	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: PZ-32 **Lab ID: 92525908001** Collected: 03/03/21 10:15 Received: 03/05/21 09:45 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	**-0.0519 ± 0.141 (0.400) C:71% T:NA**	pCi/L	03/25/21 09:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.836 ± 0.476 (0.861) C:84% T:86%**	pCi/L	03/24/21 19:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.836 ± 0.617 (1.26)**	pCi/L	03/27/21 10:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: PZ-14 | **Lab ID: 92525908002** | Collected: 03/03/21 13:20 | Received: 03/05/21 09:45 | 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	**0.192 ± 0.162 (0.305) C:79% T:NA**	pCi/L	03/25/21 09:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.136 ± 0.425 (0.953) C:83% T:96%**	pCi/L	03/24/21 19:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.328 ± 0.587 (1.26)**	pCi/L	03/27/21 10:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: PZ-23A | **Lab ID: 92525908003** | Collected: 03/03/21 16:15 | Received: 03/05/21 09:45 | 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	**0.212 ± 0.143 (0.225) C:78% T:NA**	pCi/L	03/25/21 09:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.798 ± 0.579 (1.14) C:83% T:77%**	pCi/L	03/24/21 19:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.01 ± 0.722 (1.37)**	pCi/L	03/27/21 10:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: DUP-2 | **Lab ID: 92525908004** | Collected: 03/03/21 00:00 | Received: 03/05/21 09:45 | 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	**0.121 ± 0.108 (0.185) C:81% T:NA**	pCi/L	03/25/21 09:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.503 ± 0.451 (0.909) C:81% T:82%**	pCi/L	03/24/21 19:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.624 ± 0.559 (1.09)**	pCi/L	03/27/21 10:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: EB-1 | **Lab ID: 92525908005** | Collected: 03/03/21 09:55 | Received: 03/05/21 09:45 | 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	**0.00547 ± 0.0829 (0.229) C:77% T:NA**	pCi/L	03/25/21 09:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.310 ± 0.472 (1.02) C:81% T:78%**	pCi/L	03/24/21 19:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.315 ± 0.555 (1.25)**	pCi/L	03/27/21 10:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: PZ-1D **Lab ID: 92525908006** Collected: 03/03/21 11:15 Received: 03/05/21 09:45 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	**0.166 ± 0.127 (0.209) C:78% T:NA**	pCi/L	03/25/21 09:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.749 ± 0.674 (1.39) C:83% T:85%**	pCi/L	03/24/21 19:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.915 ± 0.801 (1.60)**	pCi/L	03/27/21 10:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: PZ-31 **Lab ID: 92525908007** Collected: 03/03/21 13:40 Received: 03/05/21 09:45 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	**0.150 ± 0.130 (0.237) C:81% T:NA**	pCi/L	03/25/21 09:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.757 ± 0.621 (1.25) C:82% T:84%**	pCi/L	03/24/21 19:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.907 ± 0.751 (1.49)**	pCi/L	03/27/21 10:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: PZ-25 **Lab ID: 92525908008** Collected: 03/03/21 13:46 Received: 03/05/21 09:45 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	**0.518 ± 0.225 (0.282) C:75% T:NA**	pCi/L	03/25/21 09:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0265 ± 0.585 (1.34) C:81% T:86%**	pCi/L	03/24/21 19:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.545 ± 0.810 (1.62)**	pCi/L	03/27/21 10:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: DUP-1 | **Lab ID: 92525908009** | Collected: 03/03/21 00:00 | Received: 03/05/21 09:45 | 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	**0.292 ± 0.214 (0.410) C:78% T:NA**	pCi/L	03/25/21 09:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0785 ± 0.669 (1.54) C:81% T:85%**	pCi/L	03/24/21 19:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.292 ± 0.883 (1.95)**	pCi/L	03/27/21 10:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: PZ-19 | **Lab ID: 92525908010** | Collected: 03/03/21 16:00 | Received: 03/05/21 09:45 | 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	**0.297 ± 0.195 (0.337) C:73% T:NA**	pCi/L	03/25/21 09:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.172 ± 0.345 (0.761) C:78% T:82%**	pCi/L	03/24/21 16:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.469 ± 0.540 (1.10)**	pCi/L	03/27/21 10:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: PZ-17 **Lab ID: 92525908011** Collected: 03/04/21 10:00 Received: 03/05/21 13:10 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	**0.0175 ± 0.0988 (0.256) C:80% T:NA**	pCi/L	03/25/21 09:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.716 ± 0.585 (1.17) C:82% T:75%**	pCi/L	03/24/21 18:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.734 ± 0.684 (1.43)**	pCi/L	03/27/21 10:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: PZ-18 **Lab ID: 92525908012** Collected: 03/04/21 11:05 Received: 03/05/21 13:10 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	**0.0545 ± 0.120 (0.283) C:75% T:NA**	pCi/L	03/25/21 09:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.443 ± 0.475 (0.985) C:79% T:86%**	pCi/L	03/24/21 19:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.498 ± 0.595 (1.27)**	pCi/L	03/27/21 10:23	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: PZ-16 | **Lab ID: 92525908013** | Collected: 03/04/21 11:15 | Received: 03/05/21 13:10 | 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	**0.105 ± 0.139 (0.299) C:80% T:NA**	pCi/L	03/25/21 09:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.299 ± 0.413 (0.884) C:82% T:85%**	pCi/L	03/24/21 18:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.404 ± 0.552 (1.18)**	pCi/L	03/27/21 10:23	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: PZ-33 **Lab ID: 92525908014** Collected: 03/04/21 14:05 Received: 03/05/21 13:10 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	**0.124 ± 0.126 (0.242) C:81% T:NA**	pCi/L	03/25/21 09:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.905 ± 0.488 (0.872) C:83% T:89%**	pCi/L	03/24/21 18:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.03 ± 0.614 (1.11)**	pCi/L	03/27/21 10:23	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: FB-1 | **Lab ID: 92525908015** | Collected: 03/04/21 08:30 | Received: 03/05/21 13:10 | 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	**-0.00993 ± 0.138 (0.367) C:74% T:NA**	pCi/L	03/25/21 09:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.186 ± 0.411 (0.912) C:83% T:84%**	pCi/L	03/24/21 18:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.186 ± 0.549 (1.28)**	pCi/L	03/27/21 10:23	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: PZ-15 | **Lab ID: 92525908016** | Collected: 03/04/21 10:46 | Received: 03/05/21 13:10 | 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	**0.202 ± 0.160 (0.290) C:77% T:NA**	pCi/L	03/25/21 09:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.472 ± 0.471 (0.973) C:83% T:87%**	pCi/L	03/24/21 18:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.674 ± 0.631 (1.26)**	pCi/L	03/27/21 10:23	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: PZ-7D | **Lab ID: 92525908017** | Collected: 03/04/21 13:16 | Received: 03/05/21 13:10 | 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	**0.0803 ± 0.122 (0.267) C:81% T:NA**	pCi/L	03/25/21 09:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.449 ± 0.416 (0.849) C:83% T:93%**	pCi/L	03/24/21 19:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.529 ± 0.538 (1.12)**	pCi/L	03/27/21 10:23	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Sample: PZ-2D | **Lab ID: 92525908018** | Collected: 03/08/21 15:34 | Received: 03/09/21 09:40 | 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 ± 0.119 (0.172) C:94% T:NA**	pCi/L	03/26/21 08:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.284 ± 0.291 (0.600) C:87% T:92%**	pCi/L	03/22/21 13:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.475 ± 0.410 (0.772)**	pCi/L	04/01/21 12:54	7440-14-4	

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

QC Batch:	438266	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92525908018

METHOD BLANK: 2115671 Matrix: Water

Associated Lab Samples: 92525908018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.142 ± 0.131 (0.243) C:77% T:NA	pCi/L	03/26/21 08:05	

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.

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

QC Batch: 438167
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525908001, 92525908002, 92525908003, 92525908004, 92525908005, 92525908006, 92525908007, 92525908008, 92525908009, 92525908010, 92525908011, 92525908012, 92525908013, 92525908014, 92525908015, 92525908016, 92525908017

METHOD BLANK: 2115335 Matrix: Water

Associated Lab Samples: 92525908001, 92525908002, 92525908003, 92525908004, 92525908005, 92525908006, 92525908007, 92525908008, 92525908009, 92525908010, 92525908011, 92525908012, 92525908013, 92525908014, 92525908015, 92525908016, 92525908017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.199 ± 0.331 (0.720) C:83% T:85%	pCi/L	03/24/21 16:42	

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.

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

QC Batch:	438909	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92525908018

METHOD BLANK: 2118824 Matrix: Water

Associated Lab Samples: 92525908018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.308 ± 0.318 (0.657) C:79% T:84%	pCi/L	03/22/21 13:09	

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.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

QC Batch: 438263 | Analysis Method: EPA 9315
QC Batch Method: EPA 9315 | Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525908001, 92525908002, 92525908003, 92525908004, 92525908005, 92525908006, 92525908007, 92525908008, 92525908009, 92525908010, 92525908011, 92525908012, 92525908013, 92525908014, 92525908015, 92525908016, 92525908017

METHOD BLANK: 2115665 Matrix: Water

Associated Lab Samples: 92525908001, 92525908002, 92525908003, 92525908004, 92525908005, 92525908006, 92525908007, 92525908008, 92525908009, 92525908010, 92525908011, 92525908012, 92525908013, 92525908014, 92525908015, 92525908016, 92525908017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0782 ± 0.129 (0.288) C:88% T:NA	pCi/L	03/25/21 09:33	

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.

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

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.

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.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525908001	**PZ-32**	EPA 9315	438263		
92525908002	**PZ-14**	EPA 9315	438263		
92525908003	**PZ-23A**	EPA 9315	438263		
92525908004	**DUP-2**	EPA 9315	438263		
92525908005	**EB-1**	EPA 9315	438263		
92525908006	**PZ-1D**	EPA 9315	438263		
92525908007	**PZ-31**	EPA 9315	438263		
92525908008	**PZ-25**	EPA 9315	438263		
92525908009	**DUP-1**	EPA 9315	438263		
92525908010	**PZ-19**	EPA 9315	438263		
92525908011	**PZ-17**	EPA 9315	438263		
92525908012	**PZ-18**	EPA 9315	438263		
92525908013	**PZ-16**	EPA 9315	438263		
92525908014	**PZ-33**	EPA 9315	438263		
92525908015	**FB-1**	EPA 9315	438263		
92525908016	**PZ-15**	EPA 9315	438263		
92525908017	**PZ-7D**	EPA 9315	438263		
92525908018	**PZ-2D**	EPA 9315	438266		
92525908001	**PZ-32**	EPA 9320	438167		
92525908002	**PZ-14**	EPA 9320	438167		
92525908003	**PZ-23A**	EPA 9320	438167		
92525908004	**DUP-2**	EPA 9320	438167		
92525908005	**EB-1**	EPA 9320	438167		
92525908006	**PZ-1D**	EPA 9320	438167		
92525908007	**PZ-31**	EPA 9320	438167		
92525908008	**PZ-25**	EPA 9320	438167		
92525908009	**DUP-1**	EPA 9320	438167		
92525908010	**PZ-19**	EPA 9320	438167		
92525908011	**PZ-17**	EPA 9320	438167		
92525908012	**PZ-18**	EPA 9320	438167		
92525908013	**PZ-16**	EPA 9320	438167		
92525908014	**PZ-33**	EPA 9320	438167		
92525908015	**FB-1**	EPA 9320	438167		
92525908016	**PZ-15**	EPA 9320	438167		
92525908017	**PZ-7D**	EPA 9320	438167		
92525908018	**PZ-2D**	EPA 9320	438909		
92525908001	**PZ-32**	Total Radium Calculation	440753		
92525908002	**PZ-14**	Total Radium Calculation	440753		
92525908003	**PZ-23A**	Total Radium Calculation	440753		
92525908004	**DUP-2**	Total Radium Calculation	440753		
92525908005	**EB-1**	Total Radium Calculation	440753		
92525908006	**PZ-1D**	Total Radium Calculation	440753		
92525908007	**PZ-31**	Total Radium Calculation	440753		
92525908008	**PZ-25**	Total Radium Calculation	440753		
92525908009	**DUP-1**	Total Radium Calculation	440753		
92525908010	**PZ-19**	Total Radium Calculation	440753		
92525908011	**PZ-17**	Total Radium Calculation	440753		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL SPRING 2021 SA RADS
Pace Project No.: 92525908

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525908012	**PZ-18**	Total Radium Calculation	440754		
92525908013	**PZ-16**	Total Radium Calculation	440754		
92525908014	**PZ-33**	Total Radium Calculation	440754		
92525908015	**FB-1**	Total Radium Calculation	440754		
92525908016	**PZ-15**	Total Radium Calculation	440754		
92525908017	**PZ-7D**	Total Radium Calculation	440754		
92525908018	**PZ-2D**	Total Radium Calculation	441396		

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

Sample Condition Upon Receipt

Client Name: GA Power - Wood E+I

Project #: **WO# : 92525908**

92525908

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

\# 8121 9394 5988

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

Date/Initials Person Examining Contents: 3/5/21 KRW

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

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

Thermometer: ☑ IR Gun ID: THR244

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.0 **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): 4.1

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. Standard
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:** ____________

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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:	Danie Howard/Andreas Shoredits	Attention:	
Address:	1075 Big Shanty Road	Copy To:		Company Name:	
	Kennesaw, GA 30144			Address:	
Email:	daniel.howard2@woodplc.com	Purchase Order #:		Pace Quote:	
Phone:	(770)421-3382 Fax	Project Name:	Mitchell Spring 2021 Semi-Annual	Pace Project Manager:	kevin.herring@pacelabs.com
Requested Due Date:	Standard	Project #:	6122160170	Pace Profile #:	10834

Regulatory Agency:

State / Location: GA

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

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

Requested Analysis Filtered (Y/N): App III & IV Metals N; Cl, F, SO4 N; TDS N; RAD 9315/9320 N

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Collected Start DATE	Collected Start TIME	Collected End DATE	Collected End TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III & IV Metals	Cl, F, SO4	TDS	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~PZ-1D~~ PZ-32	WT				3/3/21	1015		5	X		X						x	x	x	x		pH = 7.41
2	~~PZ-2D~~ PZ-14	WT				3/3/21	1320		5	X		X						x	x	x	x		pH = 6.99
3	~~PZ-34~~ PZ-23A	WT				3/3/21	1615		5	X		X						x	x	x	x		pH = 6.79
4	~~PZ-32~~ DUP-2	WT				3/3/21	—		5	X		X						x	x	x	x		pH = 6.79
5	~~PZ-7D~~	WT																x	x	x	x		
6	~~PZ-14~~	WT																x	x	x	x		
7	~~PZ-15~~	WT																x	x	x	x		
8	~~PZ-16~~	WT																x	x	x	x		
9	~~PZ-17~~	WT																x	x	x	x		
10	~~PZ-1C~~	WT																x	x	x	x		
11	~~PZ-19~~	WT																x	x	x	x		
12	~~PZ-20A~~	WT																x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Na ...s, Be, Cd	Daniel Howard / Wood	3/3/21	1815	K. Williford / Pace	3/5/21	0945	4.1	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed: 3/3/21

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

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A – Required Client Information:	Section B – Required Project Information:	Section C – Invoice Information:	Page: 1 Of 1
Company: Wood E&I (GA Power)	Report To: Daniel Howard/Andreas Shoredits	Attention:	
Address: 1075 Big Shanty Road	Copy To:	Company Name:	
Kennesaw, GA 30144		Address:	Regulatory Agency
Email: daniel.howard2@woodplc.com	Purchase Order #:	Pace Quote:	
Phone: (770)421-3382 Fax:	Project Name: Mitchell Spring 2021 Semi-Annual	Pace Project Manager: kevin.herring@pacelabs.com	State / Location
Requested Due Date: Standard	Project #: 6122160170	Pace Profile #: 10834	GA

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

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

Requested Analysis Filtered (Y/N): App III & IV Metals N; Cl, F, SO4 N; TDS N; RAD 9315/9320 N

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	App III & IV Metals	Cl, F, SO4	TDS	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~[illegible]~~ EB-1	WT				3/3/21	0955		5	X		X						x	x	x	x		
2	~~[illegible]~~ PZ-1D	WT				3/3/21	1115		5	X		X						x	x	x	x		pH=7.56
3	~~[illegible]~~ PZ-31	WT				3/3/21	1340		5	X		X						x	x	x	x		pH=7.14
4	~~[illegible]~~	WT																x	x	x	x		
5	~~[illegible]~~	WT																x	x	x	x		
6	~~[illegible]~~	WT																x	x	x	x		
7	~~[illegible]~~	WT																x	x	x	x		
8	~~[illegible]~~	WT																x	x	x	x		
9	~~[illegible]~~	WT																x	x	x	x		
10	~~[illegible]~~	WT																x	x	x	x		
11	~~[illegible]~~	WT																x	x	x	x		
12	~~[illegible]~~	WT																x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
No As, Be, Cd	Daniel Howard / Wood	3/3/21	1815	[signature] / Pace	3/5/21	0945	1.8	Y	Y	Y

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: [signature]	DATE Signed: 3/3/21				

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CHAIN-OF-CUSTODY / Analytical Request Document

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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/Andreas Shoredits
Copy To:	
Purchase Order #:	
Project Name:	Mitchell Spring 2021 Semi-Annual
Project #:	6122160170

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	kevin.herring@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

Requested Analysis Filtered (Y/N): Y/N — N N N N

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	App III & IV Metals	Cl, F, SO4	TDS	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~PZ-18~~ PZ-25	WT				3/3/21	1346		5	X		X						x	x	x	x		pH = 7.04
2	~~PZ-20~~ DUP-1	WT				3/3/21	—		5	X		X						x	x	x	x		pH = 7.04
3	~~PZ-31~~ PZ-19	WT				3/3/21	1600		5	X		X						x	x	x	x		pH = 6.78
4	~~PZ-30~~	WT																x	x	x	x		
5	~~PZ-70~~	WT																x	x	x	x		
6	~~PZ-14~~	WT																x	x	x	x		
7	~~PZ-15~~	WT																x	x	x	x		
8	~~PZ-16~~	WT																x	x	x	x		
9	~~PZ-17~~	WT																x	x	x	x		
10	~~PZ-18~~	WT																x	x	x	x		
11	~~PZ-10~~	WT																x	x	x	x		
12	~~PZ-23A~~	WT																x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Ne As, Be, Cd	Daniel Howard / Wood	3/3/21	1815	[signature] / PACE	3/5/21	0945	2.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 3/3/21

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:
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/Andreas Shoredits
Copy To: Rhonda Quinn
Rhonda.Quinn@woodplc.com
Purchase Order #:
Project Name: Mitchell Spring 2021 Semi-Annual
Project #: 6122160170

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@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	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	App III & IV Metals	Cl, F, SO4	TDS	RAD 9315/9320	Residual Chlorine (Y/N)	
1	PZ-17	WT				3/4/21	1000		5	X		X							x	x	x	x		pH=7.09
2	PZ-18	WT				3/4/21	1105		5	X		X							x	x	x	x		pH=6.91
3	PZ-16	WT				3/4/21	1115		5	X		X							x	x	x	x		pH=7.34
4	PZ-33	WT				3/4/21	1405		5	X		X							x	x	x	x		pH=7.22
5		WT																	x	x	x	x		
6		WT																	x	x	x	x		
7		WT																	x	x	x	x		
8		WT																	x	x	x	x		
9		WT																	x	x	x	x		
10		WT																	x	x	x	x		
11		WT																	x	x	x	x		
12		WT																	x	x	x	x		

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
No As, Be, Cd	Daniel Howard/Wood	3/4/21 5	1310	K. Well/Pace	3/5/21	1310	3.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Daniel Howard
SIGNATURE of SAMPLER: Daniel L Howard
DATE Signed: 3/4/21

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

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical® www.pacelabs.com

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/Andreas Shoredits
- Copy To: Rhonda Quinn
- Rhonda.Quinn@woodplc.com
- Purchase Order #:
- Project Name: Mitchell Spring 2021 Semi-Annual
- Project #: 6122160170

Section C — Invoice Information:

- Attention:
- Company Name:
- Address:
- Pace Quote:
- Pace Project Manager: kevin.herring@pacelabs.com,
- Pace Profile #: 10834

Regulatory Agency

State / Location: GA

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

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

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	Analyses Test Y/N	App III & IV Metals	Cl, F, SO4	TDS	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~[illegible]~~ FB-1	WT				3/4/21	0830		5	X		X							x	x	x	x		
2	~~[illegible]~~ PZ-15	WT				3/4/21	1046		5	X		X							x	x	x	x		pH = 7.09
3	~~[illegible]~~ PZ-7D	WT				3/4/21	1316		5	X		X							x	x	x	x		pH = 6.95
4	~~[illegible]~~	WT																	x	x	x	x		
5	~~PZ-7D~~	WT																	x	x	x	x		
6	~~PZ-14~~	WT																	x	x	x	x		
7	~~[illegible]~~	WT																	x	x	x	x		
8	~~[illegible]~~	WT																	x	x	x	x		
9	~~PZ-17~~	WT																	x	x	x	x		
10	~~[illegible]~~	WT																	x	x	x	x		
11	~~[illegible]~~	WT																	x	x	x	x		
12	~~PZ-23A~~	WT																	x	x	x	x		

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
No As, Be, Cd	Daniel Howard / Wood	3/4/21	1310	K. [illegible] / Pace	3/5/21	1310	3.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel L Howard — DATE Signed: 3/4/21

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

CHAIN-OF-CUSTODY / Analytical Request Document

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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/Andreas Shoredits
Copy To: Rhonda Quinn Rhonda.Quinn@Woodplc.com
Purchase Order #:
Project Name: Mitchell Spring 2021 Semi-Annual
Project #: 6122160170

Section C – Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@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

MATRIX CODE (see valid codes to left); SAMPLE TYPE (G=GRAB C=COMP)

Requested Analysis Filtered (Y/N): App III & IV Metals N; Cl, F, SO4 N; TDS N; RAD 9315/9320 N

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III & IV Metals	Cl, F, SO4	TDS	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~PZ-1D~~ PZ-2D	WT				3/8/21	1534		5	X		X						x	x	x	x		pH = 7.77
2	~~PZ-2D~~	WT																x	x	x	x		
3	~~PZ-3T~~	WT																x	x	x	x		
4	~~PZ-4?~~	WT																x	x	x	x		
5	~~PZ-7D~~	WT																x	x	x	x		
6	~~PZ-11~~	WT																x	x	x	x		
7	~~[illegible]~~	WT																x	x	x	x		
8	~~PZ-16~~	WT																x	x	x	x		
9	~~PZ-17~~	WT																x	x	x	x		
10	~~PZ-18~~	WT																x	x	x	x		
11	~~PZ-19~~	WT																x	x	x	x		
12	~~PZ-23A~~	WT																x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
No As, Be, Cd	Daniel Howard/Wood	3/8/21	1745	Charles [illegible]	3/9/21	0940	1.2	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard
SIGNATURE of SAMPLER: Daniel Howard
DATE Signed: 3/8/21

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

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	CLA
Date:	3/24/2021
Worklist:	59287
Matrix:	DW

Method Blank Assessment	
MB Sample ID	2115665
MB concentration:	0.078
M/B Counting Uncertainty:	0.128
MB MDC:	0.288
MB Numerical Performance Indicator:	1.20
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS59287	LCSD59287
Count Date:	3/25/2021	3/25/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039	24.039
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.502
Target Conc. (pCi/L, g, F):	4.800	4.787
Uncertainty (Calculated):	0.058	0.057
Result (pCi/L, g, F):	5.031	4.732
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.564	0.535
Numerical Performance Indicator:	0.80	-0.20
Percent Recovery:	104.82%	98.84%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment		
Sample I.D.:	LCS59287	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD59287	
Sample Result (pCi/L, g, F):	5.031	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.564	
Sample Duplicate Result (pCi/L, g, F):	4.732	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.535	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.756	92525653001
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.88%	92525653001DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

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:		

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:

CMW 3/26/21

LAM 3/25/21

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	CLA
Date:	3/24/2021
Worklist:	59287
Matrix:	DW

Method Blank Assessment	
MB Sample ID	2115665
MB concentration:	0.078
M/B Counting Uncertainty:	0.128
MB MDC:	0.288
MB Numerical Performance Indicator:	1.20
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS59287	LCSD59287
Count Date:	3/25/2021	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.039	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.501	
Target Conc. (pCi/L, g, F):	4.800	
Uncertainty (Calculated):	0.058	
Result (pCi/L, g, F):	5.031	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.564	
Numerical Performance Indicator:	0.80	
Percent Recovery:	104.82%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment		
Sample I.D.:	92525653001	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92525653001DUP	
Sample Result (pCi/L, g, F):	0.181	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.197	
Sample Duplicate Result (pCi/L, g, F):	0.244	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.147	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	-0.503	92525653001
Duplicate RPD:	29.70%	92525653001DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	25%	

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:		

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   AM 3/25/21

CLA 3/26/21

AM 3/25/21

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Quality Control Sample Performance Assessment

Test:	Ra-226
Analyst:	CLA
Date:	3/18/2021
Worklist:	59289
Matrix:	DW

Method Blank Assessment	
MB Sample ID	2115671
MB concentration:	0.142
M/B Counting Uncertainty:	0.129
MB MDC:	0.243
MB Numerical Performance Indicator:	2.16
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS59289	LCSD59289
Count Date:	3/26/2021	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.039	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.501	
Target Conc. (pCi/L, g, F):	4.797	
Uncertainty (Calculated):	0.058	
Result (pCi/L, g, F):	5.221	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.530	
Numerical Performance Indicator:	1.56	
Percent Recovery:	108.83%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment		
Sample I.D.:	92525905004	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92525905004DUP	
Sample Result (pCi/L, g, F):	0.131	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.145	
Sample Duplicate Result (pCi/L, g, F):	0.079	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.113	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	0.554	92525905004
Duplicate RPD:	49.44%	92525905004DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicata Status vs RPD:	Fail***	
% RPD Limit:	25%	

Analyst Must Manually Enter All Fields Highlighted in Yellow.

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 Uncartainty (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:		

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 IAM 3/26/21

RL 3/26/21

IAM 3/26/21

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	CLA
Date:	3/18/2021
Worklist:	59289
Matrix:	DW

Method Blank Assessment	
MB Sample ID	2115671
MB concentration:	0.142
M/B Counting Uncertainty:	0.129
MB MDC:	0.243
MB Numerical Performance Indicator:	2.16
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS59289	LCSD59289
Count Date:	3/26/2021	3/26/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039	24.039
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.505
Target Conc. (pCi/L, g, F):	4.797	4.761
Uncertainty (Calculated):	0.058	0.057
Result (pCi/L, g, F):	5.221	5.012
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.530	0.536
Numerical Performance Indicator:	1.56	0.91
Percent Recovery:	108.83%	105.27%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment		
Sample I.D.:	LCS59289	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD59289	
Sample Result (pCi/L, g, F):	5.221	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.530	
Sample Duplicate Result (pCi/L, g, F):	5.012	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.536	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.541	92525905004
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.32%	92525905004DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

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:		

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:

Th 3/26/21

VAm 3/26/21

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	3/22/2021
Worklist:	59272
Matrix:	WT

Method Blank Assessment	
MB Sample ID	2115335
MB concentration:	0.199
M/B 2 Sigma CSU:	0.331
MB MDC:	0.720
MB Numerical Performance Indicator:	1.18
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS59272	LCSD59272
Count Date:	3/24/2021	3/24/2021
Spike I.D.:	21-003	21-003
Decay Corrected Spike Concentration (pCi/mL):	38.341	38.341
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.805	0.817
Target Conc. (pCi/L, g, F):	4.763	4.691
Uncertainty (Calculated):	0.233	0.230
Result (pCi/L, g, F):	4.418	4.067
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.059	1.008
Numerical Performance Indicator:	-0.62	-1.18
Percent Recovery:	92.76%	86.70%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS59272	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD59272	
Sample Result (pCi/L, g, F):	4.418	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.059	
Sample Duplicate Result (pCi/L, g, F):	4.067	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.008	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.470	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.75%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		

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:

3/25/21

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test: Ra-228
Analyst: VAL
Date: 3/19/2021
Worklist: 59356
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2118824
MB concentration:	0.308
M/B 2 Sigma CSU:	0.318
MB MDC:	0.657
MB Numerical Performance Indicator:	1.90
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS59356	LCSD59356
Count Date:	3/22/2021	3/22/2021
Spike I.D.:	21-003	21-003
Decay Corrected Spike Concentration (pCi/mL):	38.368	38.368
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.814	0.816
Target Conc. (pCi/L, g, F):	4.715	4.703
Uncertainty (Calculated):	0.231	0.230
Result (pCi/L, g, F):	3.779	3.043
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.901	0.781
Numerical Performance Indicator:	-1.97	-3.99
Percent Recovery:	80.15%	64.70%
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		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS59356	
Duplicate Sample I.D.	LCSD59356	
Sample Result (pCi/L, g, F):	3.779	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.901	
Sample Duplicate Result (pCi/L, g, F):	3.043	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.781	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.210	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	21.34%	
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:

3/23/21

Data Evaluation Narrative
Project: Plant Mitchell CCR Groundwater Assessment Monitoring Event #4
Wood Project Number: 6122160170.2003.**
Site: Ash Ponds 1&2 - Plant Mitchell, Georgia
Matrix: Groundwater

Pace SDG Nos: 92492821 and 92492815

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the Assessment Monitoring Event #4 (August 2020) 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 National Functional Guidelines for Inorganic Data Review (USEPA, 2014), 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, SW7470A, EPA 300.0, SW9315, and SW9320.

Sample Integrity

The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for CCR Appendix IV metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, lithium, molybdenum, selenium, and thallium) by Method SW6020, mercury by Method SW7470A, and anions (fluoride) by Method 300.0. 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 in SDG 92492815.

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-1D	08/25/20	II	PZ-33	08/26/20	II
PZ-2D+QC	08/26/20	II	PZ-15	08/26/20	II
PZ-31	08/25/20	II	PZ-16	08/26/20	II
PZ-14	08/26/20	II	PZ-19	08/26/20	II
PZ-23A	08/26/20	II	**QC Samples**		
PZ-17	08/26/20	II	FB-01	08/26/20	II
PZ-25	08/26/20	II	EB-01	08/25/20	II
PZ-32	08/25/20	II	DUP-01	08/26/20	II
PZ-7D	08/26/20	II	DUP-02	08/26/20	II
PZ-18+QC	08/27/20	II			

These samples were collected from Ash Ponds 1 and 2 on August 25 through 27, 2020. Sample DUP-01 is a field duplicate of PZ-25, and DUP-02 is a field duplicate of PZ-23A. The field QC blanks include samples FB-01 (a field blank sample) and EB-01 (an equipment blank). Samples PZ-2D+QC and PZ-18+QC were submitted for MS/MSD analysis.

The analytical results for the metals, mercury, anions, and radium 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 IV metals by Methods SW6020B. The CCR 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 for metals except for method blank contamination.

Holding Times

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

Method Blanks

One of the laboratory method blanks associated with the samples analyzed within this SDG contained Sb (0.00043J mg/L). Results less than five times the method blank value were considered "not detected" as possible laboratory artifacts: **Reason Code: BL**

> *Action: The Sb results for samples PZ-23A, DUP-02, PZ-15, PZ-16, PZ-17, PZ-7D, PZ-1D, and PZ-2D were qualified as not detected and flagged "U*".*

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-23A, 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-25, and DUP-02 is associated with monitoring well PZ-23A. 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 the associated equipment blank and no metals were detected.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of metals by USEPA Method SW6020B. 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 for mercury except for field blank contamination.

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 performed on sample PZ-23A, and the recoveries and RPD 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-25, and DUP-02 is associated with monitoring well PZ-23A. Acceptable duplicate precision was achieved, and no qualification of the parent 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. EB-01 is an equipment blank associated with all samples collected during this sampling event and no mercury was detected. FB-01 is the associated field blank and reported mercury below the reporting limit (0.000099 J mg/L). Results less than five times the field blank value were considered "not detected" as possible laboratory artifacts: **Reason Code: BF**

> *Action: The Hg results for samples PZ-23A, DUP-02, PZ-19, PZ-33, PZ-14, PZ-31, and PZ-1D were qualified as not detected and flagged "U*".*

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. The "J" qualifier is maintained by the data validator unless overridden by qualification for other QC criteria.

Anions (EPA 300)

The samples were submitted to Pace for anions (fluoride) 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 analyses were performed on samples PZ-19 and PZ-25, and the percent recoveries and RPDs were within QC limits.

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-25, and DUP-02 is associated with monitoring well PZ-23A. Acceptable duplicate precision was achieved, and no qualification of the parent 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 EB-01 is an equipment blank and is associated with the samples reported in this SDG and reported no contamination for fluoride. Sample FB-01 is the associated field blank and reported no contamination for fluoride.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of fluoride 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.

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.

Holding Times

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

Method Blanks

One or more of the laboratory method blanks contained reportable concentrations of Ra-226 or Ra-228 above the MDC. Results less than five times the method blank value were considered "not detected" as possible laboratory artifacts: **Reason Code: BL**

> *Action: The Ra-228 and total radium results for sample PZ-17 were qualified as not detected and flagged "U*".*

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Laboratory Duplicate Precision

Laboratory duplicate analyses were performed for Ra-226 and Ra-228 in sample PZ-2D, and the RPDs were above the QC limit.

Action: No qualification was necessary because the associated results for PZ-2D were less than the MDCs.

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. Sample DUP-01 is associated with monitoring well PZ-25, and DUP-02 is associated with monitoring well PZ-23A. Acceptable duplicate precision was achieved, and no qualification of the associated samples was required.

Sampling Accuracy (Equipment Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. The field blank sample (FB-01) and equipment blank sample (EB-01) contained both 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.

Carrier and Tracer Yield Recoveries

The carrier and tracer yield recoveries for the samples and QC were within the QC limit of 30% to 110%.

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. Although the submitted MS/MSDs were not performed, the laboratory included at least one project sample as a batch MS/MSD for each method and there was no negative effect on the overall quality of the data.

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.

USEPA, 2014. *EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, Final, EPA-540-R-013-001, August 2014.

Prepared by/Date: DWK 09/16/2020
Checked By/Date: JAH 09/18/2020

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUPS 92492821 and 92492815
SAMPLING DATES: August 25 through 27, 2020
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
PZ-14	PZ-14	N	92492821	7470A	mercury	0.00015	J	U*	BF	mg/L
PZ-15	PZ-15	N	92492821	6020B	antimony	0.00062	J, B	U*	BL	mg/L
PZ-16	PZ-16	N	92492821	6020B	antimony	0.00037	J, B	U*	BL	mg/L
PZ-17	PZ-17	N	92492821	6020B	antimony	0.00061	J, B	U*	BL	mg/L
PZ-17	PZ-17	N	92492815	9320	radium-228	1.21		U*	BL	pCi/L
PZ-17	PZ-17	N	92492815	9315/9320	total radium	1.62		U*	BL	pCi/L
PZ-19	PZ-19	N	92492821	7470A	mercury	0.0001	J	U*	BF	mg/L
PZ-1D	PZ-1D	N	92492821	6020B	antimony	0.0012	J, B	U*	BL	mg/L
PZ-1D	PZ-1D	N	92492821	7470A	mercury	0.000099	J	U*	BF	mg/L
PZ-23A	PZ-23A	N	92492821	6020B	antimony	0.00038	J, B	U*	BL	mg/L
PZ-23A	PZ-23A	N	92492821	7470A	mercury	0.00017	J	U*	BF	mg/L
DUP-2	PZ-23A	FD	92492821	6020B	antimony	0.0016	J, B	U*	BL	mg/L
DUP-2	PZ-23A	FD	92492821	7470A	mercury	0.00017	J	U*	BF	mg/L
PZ-2D	PZ-2D	N	92492821	6020B	antimony	0.0008	J, B	U*	BL	mg/L
PZ-31	PZ-31	N	92492821	7470A	mercury	0.0001	J	U*	BF	mg/L
PZ-33	PZ-33	N	92492821	7470A	mercury	0.00011	J	U*	BF	mg/L
PZ-7D	PZ-7D	N	92492821	6020B	antimony	0.00031	J, B	U*	BL	mg/L

Notes:
Results qualified "J" due to detections between the MDL and RL are not included on this table unless overridden by othe DQE qualifiers.

Laboratory Qualifiers:
B = Analyte was detected in the associated method blank.
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Reason Codes:
BF = Field blank contamination. The result should be considered "not-detected".
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: DWK 09/16/20
Checked by/Date: JAH 09/18/20

DQE CHECKLISTS

wood.

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Assessment Monitoring Event 4
Project No: 6122160170.2003.****
Method: Metals by SW6020B
Laboratory and Lot: Pace SDG: 92492821
Reviewer/Date: D. Knaub 09/11/2020 **Senior Reviewer/Date:** JAH 09/18/2020

YES	NO	NA	COMMENTS
X			**Case Narrative and COC Completeness Review** No case narrative is included with Level II data package from Pace. COC requests App IV metals, the following were reported: *Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, and Tl* *(Be and Cd not previously listed as App IV metals)* Sample *PZ-18 + QC* not included on COCs.
X			**Sample Preservation and cooler temperature met (HNO_3 to pH<2; 6°C±2)** 4 coolers received 8/27 = 4.1, 5.8, 3.3, and 2.5°C. OK *1 cooler received 8/28 –OK*
X			**Holding times met (180 days)** OK
	X		**QC Blanks Review – any MB results above RL?** Method Blanks: p. 27 MB 2985842 Sb = 0.00043J x5 = **0.00215 mg/L** ***Flag assoc. results "U*":*** *PZ-23A, DUP-02, PZ-15, PZ-16, PZ-17, PZ-7D, PZ-1D, PZ-2D* **Reason Code**: **BL** p. 29 MB 2988642 = ND Field/Equipment Blanks: EB-01 = ND *(associated with PZ-2B only)* FB-01 = ND *(associated with all samples)*
X			**Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)** p. 27 LCS 2985843 – All OK p. 29 LCS 2988643 – All OK
X			**Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**

PZ-25 = Dup-01

Constituent	Parent Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff
Ba	0.10	0.10	0.0
Co	0.0016J	0.0015 J	0.0001
Li	0.0065J	0.0062J	0.0003
Tl	0.00037 J	0.00036J	0.00001

PZ-23A = Dup-02

Constituent	Parent Conc (mg/L)	Dup (mg/L)	RPD/Diff
Sb	0.00038 U*	0.0016 U*	NA
Ba	0.039	0.037	5.3
Cr	0.0014J	0.0013J	0.0001
Co	0.00058J	0.00055 J	0.00003
Li	0.0011J	0.0011J	0.0
Se	0.0026 J	0.0033 J	0.0007
Tl	0.00016J	ND	NA

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)**

**Samples PZ-2D and PZ-18 were submitted for MS/MSD analysis but neither were performed*

p. 27-28 ***PZ-23A*** - All %rec and RPDs OK

p. 29-30 *Not a sample from this SDG* **-** 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 Assessment Monitoring Event 4
Project No: 6122160170.2003.****
Method: Hg by SW7470A
Laboratory and Lot: Pace SDG: 92492821 (Pace – Peachtree Corners, GA)
Reviewer/Date: D. Knaub 09/11/2020 **Senior Reviewer/Date:** JAH 09/18/2020

YES	NO	NA		COMMENTS
X			**Case Narrative and COC Completeness Review** No case narrative is included with Level II data package from Pace. COC requests App IV metals, *Hg not previously listed as App IV metal* Sample *PZ-18 + QC* not included on COCs.	
X			**Sample Preservation and cooler temperature met (HNO_3 to pH<2; 6°C±2)** 4 coolers received 8/27 = 4.1, 5.8, 3.3, and 2.5°C. OK 1 cooler received 8/28 – OK	
X			**Holding times met (Hg = 28 days)** OK	
	X		**QC Blanks Review – any MB results above RL?** Method Blanks: p. 31 MB 2987108 Hg = ND Field/Equipment Blanks: EB-01 Hg = ND *(associated with PZ-2B only)* FB-01 Hg = 0.000099 J mg/L x5 = **0.000495 mg/L** ***Flag assoc. results "U*":*** *PZ-23A, DUP-02, PZ-19, PZ-33, PZ-14, PZ-31, PZ-1D* **Reason Code**: **BF**	
X			**Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)** p. 31 LCS 2987109 Hg = 93% OK	
X			**Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**	

PZ-25 = Dup-01

Constituent	Parent Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff
Hg	ND	ND	NA

PZ-23A = Dup-02

Constituent	Parent Conc (mg/L)	Dup (mg/L)	RPD/Diff
Hg	0.00017 U*	0.00017 U*	NA

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)

*Samples PZ-2D and PZ-18 were submitted for MS/MSD analysis but neither were performed

p. 31 ***PZ-23A*** Hg = 95, 95% RPD = 0 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 Assessment Monitoring Event 4
Project No: 6122160170.2003.****
Method: Anions (fluoride) by EPA 300
Laboratory and Lot: Pace SDG: 92492821 (Pace – Asheville, NC)
Reviewer/Date: D. Knaub 09/11/2020 **Senior Reviewer/Date:** JAH 09/18/2020

YES NO NA COMMENTS

X **Case Narrative and COC Completeness Review**
No case narrative is included with Level II data package from Pace
Sample *PZ-18 + QC* not included on COCs.

X **Sample Preservation and cooler temperature met (Cool to 6°C)**
4 coolers sent 8/26 = 4.1, 5.8, 3.3, and 2.5°C. OK
1 cooler received 8/28 – within temp, OK

X **Holding times met (F –28 days)**
OK

X **QC Blanks Review – Any detections above RL?**
Method Blanks:
p. 32 MB 2985598 F = ND p. 33 MB 2985604 F = ND
p. 34 MB 2986801 F = ND
Field/Equipment Blanks:
EB-01 F = *ND* FB-01 F = *ND*

X **Laboratory Control Sample (LCS) recovery within lab limits (90-110%)**
p. 32 LCS 2985599: F = 104% OK p. 33 LCS 2985605: F = 107% OK
p. 34 LCS 2986802 F = 105% OK

X **Lab Duplicate - Field Duplicate precision goals met (20%)**

PZ-25 = Dup-01

Constituent	Parent Sample Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff
fluoride	0.14	0.14	0.0

PZ-23A = Dup-02

Constituent	Parent Sample Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff
fluoride	0.057J	ND	NA

X **Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20)**
p. 32 Not samples from this SDG - % rec and RPDs OK
p. 33 PZ-19 F = 105, 106% RPD = 1 OK
PZ-25 F = 106, 106% RPD = 0 OK
p. 34 Not samples from this SDG - % rec and RPDs OK

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 Assessment Monitoring Event 4
Project No: 6122160170.03.****
Method: Radium-226, Radium-228, Total Radium by EPA 9315 and EPA 9320
Laboratory and Lot: Pace SDG: 92492815 (Pace-Greensburg, PA)
Reviewer/Date: D. Knaub 09/16/2020 **Senior Reviewer/Date:** JAH 09/18/2020

YES NO NA COMMENTS

[X] (YES) **Case Narrative and COC Completeness Review**
OK

[X] (YES) **Sample Preservation and cooler temperature met (HNO_3 to pH<2)**
OK

[X] (YES) **Holding times met (180 days)**
OK

[X] (NO) **QC Blanks Review (net blank value <MDC)**
p. 29 radium-228 (1994499) = present but <MDC
p. 30 radium-226 (1994514) = 0.206 pCi/L (*sample 018*)
No flag, assoc. sample <MDC
p. 31 radium-228 (1994497) = 0.722 pCi/L 5x=**3.61** (*samples 001-017*)
Flag assoc. Ra-228 and total radium results "U*": *PZ-17* **Reason Code: BL**
p. 32 radium-226 (1994508) = present but <MDC

Field/Equipment Blanks:
p. 20 EB-01 (*assoc. w/ PZ-2B*)
present but <MDC (ND)
p. 24 FB-01– present but <MDC

[X] (YES) **Laboratory Control Sample (LCS) recovery within lab limits (80-120%; RPD = RER (2σ <3)**
p. 43-44 LCS 55957 Ra-226 = 83.08%
p. 45-46 LCS 55959 Ra-226 = 92.23%
p. 47 LCS 55952 Ra-228 = 91.85%
p. 48 LCS/LCSD 55954 Ra-228 = 106.10, 104.44% RPD = 1.57

[X] (YES) **Lab Duplicate - Field Duplicate precision goals met (lab limits); lab dup every 10 samples (RPD = RER (2σ) <3)**
PZ-25 = DUP-01

Constituent	Parent Conc (pCi/L)	Dup Conc (pCi/L)	RPD
Ra-226	<MDC	0.490	NC
Ra-228	<MDC	< MDC	NC
tot. radium	<MCC	< MDC	NC

YES	NO	NA		COMMENTS

Lab Duplicate - Field Duplicate (cont.)

PZ-23A = DUP-02

Constituent	Parent Conc (pCi/L)	Dup Conc (pCi/L)	RPD
Ra-226	<MDC	<MDC	NC
Ra-228	<MDC	<MDC	NC
tot. radium	<MDC	<MDC	NC

p. 43 Lab dup – PZ-2D Ra-226 RPD = 88.26% *No flag, result < MDC*
p. 44 Lab dup – PZ-2D Ra-226 RPD = 303.91% *No flag, result < MDC*
p. 45 Lab dup – PZ-2D Ra-226 RPD = 128.44% *No flag, result < MDC*
p. 47 Lab dup – PZ-2D Ra-228 RPD = 117.83% *No flag, result < MDC*

☒ **Matrix Spike recoveries and RPDs within limits (if applicable)**
NA - Pace only performs MS/MSD on drinking water samples

☒ **Carrier/Tracer Yield Recovery Ra-226 (Carrier: Ba);**
Ra-228 (Carrier Ba, Tracer: Y) (30-110%)
All ok

☒ **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**.

Checked each sample in this SDG, all OK (18 samples total)

Data Evaluation Narrative
Project: Plant Mitchell CCR Groundwater Semiannual Event #14
Wood Project Number: 6122160170.2003.*****
Site: Ash Ponds 1&2 - Plant Mitchell, Georgia
Matrix: Groundwater

Pace SDG Nos: 92499073

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the Semiannual Event #14 (October 2020) 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 National Functional Guidelines for Inorganic Data Review (USEPA, 2014), 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, SW7470A, EPA 300.0, SW9315, and SW9320.

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 (boron, calcium, antimony, arsenic, barium, 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 in SDG 92499068 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	10/06/20	II	PZ-19	10/07/20	II
PZ-32	10/06/20	II	PZ-17	10/07/20	II
PZ-1D	10/06/20	II	PZ-18	10/07/20	II
PZ-31	10/06/20	II	PZ-33	10/07/20	II
PZ-14	10/06/20	II	**QC Samples**		
PZ-23A	10/06/20	II	EB-01	10/06/20	II
PZ-16	10/06/20	II	FB-01	10/06/20	II
PZ-25	10/07/20	II	FD-01	10/07/20	II
PZ-7D	10/07/20	II	FD-02	10/07/20	II
PZ-15	10/07/20	II			

These samples were collected from Ash Ponds 1 and 2 on October 6 and 7, 2020. Sample DUP-01 is a field duplicate of PZ-19, and DUP-02 is a field duplicate of PZ-25. The field QC blanks include samples FB-01 (a field blank sample) and EB-01 (an equipment blank). The EB-01 is associated with well PZ-2D.

The analytical results for the metals, mercury, anions, and radium 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), 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 for metals except for method blank and equipment blank contamination.

Holding Times

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

Method Blanks

One of the laboratory method blanks associated with the samples analyzed within this SDG contained Sb between the method detection limit (MDL) and the reporting limit (RL) (0.0004J mg/L). Results less than five times the method blank value were considered “not detected” as possible laboratory artifacts: **Reason Code: BL**

Action: The Sb results for samples PZ-1D and PZ-32 were qualified as not detected and flagged “U”.*

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 analyses were performed on samples PZ-2D, PZ-32, and PZ-17, 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-25. 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 the associated equipment blank with well PZ-2D and contained Sb, Ba, and B at concentrations between the MDL and RL. Results less than five times the field and/or equipment blank are considered "not detected" as a possible field artifact. **Reason Code: BE**:

> *Action: The Sb, Ba, and B results for sample PZ-2D were qualified as not detected due to possible equipment blank contamination and flagged "U*".*

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of metals by USEPA Method SW6020B. 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 performed on sample PZ-23A, and the recoveries and RPD 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-25. 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)

An MS/MSD analysis was performed on sample PZ-16 and the percent recoveries and RPDs were within QC limits.

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-25. 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

Batch precision for TDS was measured through the analysis of laboratory duplicates. The laboratory analyzed sample PZ-14 and PZ-19 in duplicate, and the RPD was within QC limits indicating good analytical precision.

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-25. 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.

USEPA, 2014. *EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, Final, EPA-540-R-013-001, August 2014.

Prepared by/Date: JAH 10/22/2020
Checked By/Date: DWK 10/27/2020

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92499073
SAMPLING DATES: October 6 and 7, 2020
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
PZ-2D-080620	PZ-2D	N	92499073	6020B	antimony	0.0013	J	U*	BE	mg/L
PZ-2D-080620	PZ-2D	N	92499073	6020B	barium	0.0039	J	U*	BE	mg/L
PZ-2D-080620	PZ-2D	N	92499073	6020B	boron	0.018	J	U*	BE	mg/L
PZ-1D-080620	PZ-1D	N	92499073	6020B	antimony	0.0021	J, B	U*	BL	mg/L
PZ-31-080620	PZ-31	N	92499073	6020B	antimony	0.00045	J, B	U*	BL	mg/L

Notes:
Results qualified "J" due to detections between the MDL and RL are not included on this table unless overridden by othe DQE qualifiers.

Laboratory Qualifiers:
B = Analyte was detected in the associated method blank.
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Reason Codes:
BE = Equipment blank contamination. The result should be considered "not-detected".
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: JAH 10/22/20
Checked by/Date: DWK 10/27/20

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 14
Project No: 6122160170.2003.****
Method: Metals by SW6010D/SW6020B
Laboratory and Lot: Pace SDG: 92499073 (Pace – Peachtree Corners, GA)
Reviewer/Date: J. Hartness 10/2/2020 **Senior Reviewer/Date:** D. Knaub 10/27/20

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)** 6.0 °C. OK
X			**Holding times met (180 days)** OK
	X		**QC Blanks Review – any MB results above RL?** Method Blanks: p. 30 SW6010D MB 3028970 (Ca only) = ND p. 31 SW6010D MB 3030150 (Ca only) = ND p. 32 SW6020B MB 3027387 = ND p. 34 SW6020B MB 3030726 Sb = 0.0004 J x5 = **0.002 mg/L** ***Flag assoc. results "U*": PZ-1D, PZ-31*** **Reason Code**: **BL** p. 36 SW6020B MB 3032350 = ND Field/Equipment Blanks: EB-01 *(associated with **PZ-2D** only)* Sb = 0.00048 J x5 = **0.0024 mg/L - *Flag assoc. results "U*"*** Ba = 0.00079 J x5 = **0.00395 mg/L - *Flag assoc. results "U*"*** B = 0.0087 J x5 = **0.0435 mg/L - *Flag assoc. results "U*"*** **Reason Code**: **BL** 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 3028971 – Ca =99% OK p. 31 SW6010D LCS 3030151 – Ca =96% OK p. 32 SW6020B LCS 3027388 – All OK p. 34 SW6020B LCS 3030727 – All OK p. 36 SW6020B LCS 3032351 – All OK

X

Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)

PZ-19 = Dup-01

Constituent	Parent Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff & RL	
Ca	144	138	4.2	
Ba	0.054	0.053	1.9	
B	0.52	0.55	5.6	
Pb	0.000042J	ND	0.00495	0.005
Li	0.013 J	0.014J	0.001	0.03
Mo	0.0019J	0.0019J	0	0.01
Se	0.0035J	0.0029J	0.0006	0.01
Tl	0.0007J	0.00068J	0.00002	0.001

PZ-25 = Dup-02

Constituent	Parent Conc (mg/L)	Dup (mg/L)	RPD/Diff & RL	
Ca	84.2	85.7	1.8	
Ba	0.11	0.11	0	
B	0.18	0.19	5.4	
Co	0.0014J	0.0014 J	0	0.005
Li	0.0063J	0.0062J	0.001	0.03
Tl	0.00027J	0.00027J	0	0.001

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 samples from this SDG*

p. 32-33 SW6020B ***PZ-2D*** - All %rec and RPDs OK
p. 34-35 SW6020B ***PZ-32*** - All %rec and RPDs OK
p. 36-37 SW6020B ***PZ-17*** - 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 14
Project No: 6122160170.2003.****
Method: Hg by SW7470A
Laboratory and Lot: Pace SDG: 92499073 (Pace – Peachtree Corners, GA)
Reviewer/Date: J. Hartness 10/22/2020 **Senior Reviewer/Date:** D. Knaub 10/27/20

YES NO NA COMMENTS

No samples in this SDG required a dilution.

X (YES) **Case Narrative and COC Completeness Review**
No case narrative is included with Level II data package from Pace.

X (YES) **Sample Preservation and cooler temperature met (HNO_3 to pH<2; 6°C±2)**
6.0°C. OK

X (YES) **Holding times met (Hg = 28 days)**
OK

X (YES) **QC Blanks Review – any MB results above RL?**
Method Blanks:
p. 38 MB 3026513 Hg = ND p. 39 MB 3030665 Hg = ND
Field/Equipment Blanks:
EB-01 Hg = ND *(associated with PZ-2D only)*
FB-01 Hg = ND

X (YES) **Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)**
p. 38 LCS 3026514 Hg = 103% OK p. 39 LCS 3030666 Hg = 99% OK

X (YES) **Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**

PZ-19 = Dup-01

Constituent	Parent Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff & RL
Hg	ND	ND	NA

PZ-25 = Dup-02

Constituent	Parent Conc (mg/L)	Dup (mg/L)	RPD/Diff & RL
Hg	ND	ND	NA

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 (NA) **Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)**
p. 38 - *not a project sample from this SDG*
p. 39 - *not a project sample from this SDG*

X (NA) **Total metals vs dissolved metals (RPD < 20% or diff. < RL)**
No dissolved results in this SDG

X (YES) **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**
Checked each sample in this SDG, all OK (18 samples total)

wood.

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 14
Project No: 6122160170.2003.****
Method: Anions (chloride, fluoride, sulfate) by EPA 300
Laboratory and Lot: Pace SDG: 92499073 (Pace – Asheville, NC)
Reviewer/Date: J. Hartness 10/22/2020 **Senior Reviewer/Date:** D. Knaub 10/27/20

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)**

6.0°C. OK

X **Holding times met (F –28 days)**

OK

X **QC Blanks Review – Any detections above RL?**

Method Blanks:

p. 42 MB 3028427 = ND p. 43 MB 3030077 = ND
p. 44 MB 3030083 = ND p. 45 MB 3031544 = ND

Field/Equipment Blanks:

EB-01 = ND; FB-01 = ND

X **Laboratory Control Sample (LCS) recovery within lab limits (90-110%)**

p. 42 LCS 3028428 = All OK p. 43 LCS 3030078 = All OK
p. 44 LCS 3030084 = All OK p. 45 LCS 3031545 = All OK

X **Lab Duplicate - Field Duplicate precision goals met (20%)**

PZ-19 = Dup-01

Constituent	Parent Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff & RL
chloride	4.5	4.5	0
fluoride	0.064J	0.062J	0.002 0.1
sulfate	83.3	84	0.84

PZ-25 = Dup-02

Constituent	Parent Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff & RL
chloride	1.8	1.8	0
fluoride	0.13	0.14	7.4
sulfate	38.1	38.3	0.52

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. 42 Not samples from this SDG
p. 43 Not samples from this SDG
p. 44 **PZ-16** - % rec and RPDs OK
p. 45 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 14
Project No: 6122160170.2003.****
Method: TDS by SM2540C
Laboratory and Lot: Pace SDG: 92499073 (Pace – Peachtree Corners, GA)
Reviewer/Date: J. Hartness 10/22/2020 **Senior Reviewer/Date:** D. Knaub 10/27/20

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)** 6.0°C. OK	
X			**Holding times met (TDS = 7 days)** OK	
X			**QC Blanks Review – any MB results above RL?** Method Blanks: p. 40 MB 3025332= ND p. 41 MB 3029110 = ND Field/Equipment Blanks: EB-01 = ND *(associated with PZ-2D only)* FB-01 = ND	
X			**Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)** p. 40 LCS 3025333 TDS = 85% OK p. 41 LCS 3029111 TDS = 106% OK	
X			**Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**	

PZ-19 = Dup-01

Constituent	Parent Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff & RL
TDS	492	496	0.8

PZ-25 = Dup-02

Constituent	Parent Conc (mg/L)	Dup (mg/L)	RPD/Diff & RL
TDS	280	288	2.1

Lab Duplicates:
p. 40 **PZ-14** – RPD OK
p. 41 **PZ-19** – RPD OK

YES	NO	NA		COMMENTS
		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 #14
Wood Project Number: 6122160170.2003.***
Site: Ash Ponds 1&2 - Plant Mitchell, Georgia
Matrix: Groundwater

Pace SDG Nos: 92499068

Introduction

A data quality evaluation (DQE) was performed on the radium data reported for the Semiannual Event #14 (October 2020) 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 National Functional Guidelines for Inorganic Data Review (USEPA, 2014), 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	10/06/20	II	PZ-19	10/07/20	II
PZ-32	10/06/20	II	PZ-17	10/07/20	II
PZ-1D	10/06/20	II	PZ-18	10/07/20	II
PZ-31	10/06/20	II	PZ-33	10/07/20	II
PZ-14	10/06/20	II	**QC Samples**		
PZ-23A	10/06/20	II	EB-01	10/06/20	II
PZ-16	10/06/20	II	FB-01	10/06/20	II
PZ-25	10/07/20	II	FD-01	10/07/20	II
PZ-7D	10/07/20	II	FD-02	10/07/20	II
PZ-15	10/07/20	II			

These samples were collected from Ash Ponds 1 and 2 on October 6 and 7, 2020. Sample DUP-01 is a field duplicate of PZ-19, and DUP-02 is a field duplicate of PZ-25. The field QC blanks include the following; FB-01, a field blank sample, and EB-01, 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 equipment blank contamination and laboratory duplicate precision.

Holding Times

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

Method Blanks

The laboratory method blanks did not contain reportable concentrations of Ra-226 or Ra-228 above the MDC.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Laboratory Duplicate Precision

Laboratory duplicate analyses were performed for Ra-226 in sample PZ-17 and Ra-228 in PZ-33, and the RPDs were above the QC limit.

> *Action: The Ra-226 and total radium results for sample PZ-17 were qualified as estimated and flagged "J". No qualification was necessary for PZ-33 because the associated result was less than the MDC.*

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. Sample DUP-01 is associated with monitoring well PZ-19, and DUP-02 is associated with monitoring well PZ-25. Acceptable duplicate precision was achieved, and no qualification of the associated results was required.

Sampling Accuracy (Equipment Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. The field blank sample FB-01 contained both 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. Equipment blank sample EB-01 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 were below the MDCs in the associated sample.*

Carrier and Tracer Yield Recoveries

The carrier and tracer yield recoveries for the samples and QC were within the QC limit of 30% to 110%.

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.

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.

USEPA, 2014. *EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, Final, EPA-540-R-013-001, August 2014.

Prepared by/Date: DWK 11/09/2020
Checked By/Date: JAH 11/10/2020

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92499068
SAMPLING DATES: October 6 and 7, 2020
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
PZ-17-100720	PZ-17	N	92499068	9315	Radium-226	0.374		J	LD	pCi/L
PZ-17-100720	PZ-17	N	92499068	Calculattion	Total Radium	<1.02	U	UJ	LD	pCi/L

__Notes:__

Laboratory Qualifiers:
B = Analyte was detected in the associated method blank.
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
D6 = The precision between the sample and the sample duplicate exceeded laboratory control limits.
E = Analyte concentration exceeded the calibration range. The reported result is estimated.
M6 = Matrix spike and matrix duplicate recovery not evaluated against control limits due to sample dilution.

Reason Codes:
LD = Laboratory duplicate precision

Validation Qualifiers:
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only. The associated numerical value is the approximate concentration of the analyte in the sample.
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.

Prepared by/Date: DWK 11/09/20
Checked by/Date: JAH 11/10/20

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 14
Project No: 6122160170.2003.****
Method: Radium-226, Radium-228, Total Radium by EPA 9315 and EPA 9320
Laboratory and Lot: Pace SDG: 92499068 (Pace-Greensburg, PA)
Reviewer/Date: D. Knaub 11/09/2020 **Senior Reviewer/Date:** J. Hartness 11/10/2020

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)** 6.0 °C. OK	
X			**Holding times met (180 days)** OK	
	X		**QC Blanks Review (net blank value <MDC)** p. 29 Ra-226 (2021119) = present but <MDC p. 30 Ra-228 (2021122) = present but <MDC p. 31 Ra-226 (2023109) =present but <MDC p. 32 Ra-228 (2023116) = present but <MDC p. 33 Ra-226 (2021110) = present but < MDC Field/Equipment Blanks: p. 11 EB-01 (*assoc. w/ PZ-2D*) Ra-228 = 1.45 pCi/L x5 = **7.25 pCi/L** tot. Ra = 1.53 pCi/L x5 = **7.65 pCi/L** *No flags necessary, assoc. results < MDC* p. 24 FB-01– present but <MDC	
X			**Laboratory Control Sample (LCS) recovery within lab limits** (*Ra-226=75-125%, Ra-228=60-135%; RPD = RER (2σ) <3)* p. 40-41 LCS 56677 Ra-226 = 85.91% p. 42 LCS/LCSD 56679 Ra-226 = 83.67, 98.65% RPD = 16.34 p. 43-44 LCS/LCSD 56785 Ra-226 = 89.12, 85.99% RPD = 3.58 p. 45 LCS/LCSD 56682 Ra-228 = 101.86, 128.20% RPD = 22.9 p. 46 LCS 56787 Ra-228 = 86.38%	
	X		**Lab Duplicate - Field Duplicate precision goals met (lab limits); lab dup every 10 samples** *(RPD = RER (2σ) <3)*	

Constituent	PZ-19 (pCi/L)	FD-01 (pCi/L)	RPD
Ra-226	0.517	0.595	14.0
Ra-228	<MDC	< MDC	NC
tot. radium	0.893	1.09	19.9

YES	NO	NA		COMMENTS
	☒		**Lab Duplicate - Field Duplicate (cont.)**	

Constituent	PZ-25 (pCi/L)	FD-02 (pCi/L)	RPD
Ra-226	0.439	0.376	15.5
Ra-228	<MDC	<MDC	NC
tot. radium	< MDC	<MDC	NC

p. 40 Lab dup – Not a sample from this SDG RPD =11.23
p. 41 Lab dup – Not a sample from this SDG RPD =20.61
p. 44 Lab dup – PZ-17 Ra-226 RPD = 26.54% ***Flag assoc. result "J"***
p. 46 Lab dup – PZ-33 Ra-228 RPD = 219.02% *No flag, results < MDC*

☒ **Matrix Spike recoveries and RPDs within limits (if applicable)**
NA - Pace only performs MS/MSD on drinking water samples

☒ **Carrier/Tracer Yield Recovery Ra-226 (Carrier: Ba);**
Ra-228 (Carrier Ba, Tracer: Y) (30-110%)
All ok

☒ **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**.

Checked each sample in this SDG, all OK (18 samples total)

Data Evaluation Narrative
Project: Plant Mitchell CCR Groundwater Semiannual Event #15
Wood Project Number: 6122160170.2103.**
Site: Ash Ponds 1&2 - Plant Mitchell, Georgia
Matrix: Groundwater

Pace SDG Nos: 92525919

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the Semiannual Event #15 (March 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 National Functional Guidelines for Inorganic Data Review (USEPA, 2014), 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 SW6010D, SW6020B, SW7470A, EPA 300.0, SW9315, and SW9320.

Sample Integrity

The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for *detected* Appendix III and Appendix IV metals (boron, calcium, antimony, arsenic, barium, 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.

Arsenic, beryllium, and cadmium were not analyzed in March 2021 because they were not detected in the August 2020 assessment constituent screening scan event. 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 in SDG 92525908 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-32	03/03/21	II	PZ-17	03/04/21	II
PZ-14	03/03/21	II	PZ-18	03/04/21	II
PZ-32A	03/03/21	II	PZ-16	03/04/21	II
PZ-1D	03/03/21	II	PZ-33	03/04/21	II
PZ-31	03/03/21	II	PZ-15	03/04/21	II
PZ-25	03/03/21	II	PZ-7D	03/04/21	II
PZ-19	03/03/21	II	PZ-2D	03/08/21	II

Sample ID	Sample Date	DQE Level	Sample ID	Sample Date	DQE Level
QC Samples					
EB-1	03/03/21	II	DUP-1	03/03/21	II
FB-1	03/04/21	II	DUP-2	03/03/21	II

These samples were collected from Ash Ponds 1 and 2 on March 3, 4, and 8, 2021. Sample DUP-1 is a field duplicate of PZ-25, and DUP-2 is a field duplicate of PZ-23A. The field QC blanks include samples FB-1 (a field blank sample) and EB-1 (an equipment blank). The EB-1 is associated with well PZ-2D.

The analytical results for the metals, mercury, anions, and radium 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 *detected* 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), 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 for metals except for method blank contamination.

Holding Times

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

Method Blanks

One of the laboratory method blanks associated with the samples analyzed within this SDG contained Sb between the method detection limit (MDL) and the reporting limit (RL) (0.0003J mg/L). Results less than five times the method blank value were considered "not detected" as possible laboratory artifacts: **Reason Code: BL**

> *Action: The Sb results for samples PZ-23A, DUP-2, EB-1, PZ-1D, PZ-17, and PZ-2D were qualified as not detected and flagged "U*".*

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 analyses were performed on samples PZ-32 and PZ-14, and the recoveries and RPDs were within QC limits with one exception. The MS/MSD recoveries for Ca in sample PZ-32 were outside of the laboratory limits. No qualification is required if the sample was analyzed at a dilution, the recovery was high and the sample was not detected, or if the sample result is greater than 4 times the spiked concentration.

> *Action: No qualification was required because the sample concentration was greater than 4x the spike amount potentially masking the spike.*

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 as previously described. 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-1 is a field blank and is associated with the samples reported in this SDG and reported no contamination for metals. Sample EB-1 is the associated equipment blank with well PZ-2D and contained Sb, at a concentration between the MDL and RL, however the result was qualified for method blank criteria and flagged "U*". No additional qualification was necessary.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of metals by USEPA Method SW6020B. 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 performed on sample PZ-18, and the recoveries and RPD 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, as previously described. 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 except for MS/MSD recoveries.

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)

An MS/MSD analysis was performed on sample DUP-1 and the recoveries and RPDs were within QC limits except for high recoveries for sulfate. **Reason Code: M+**

> *Action: The sulfate results for samples DUP-1 and parent sample PZ-25 were qualified as estimated, with a possible high bias and flagged "J".*

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event, as previously described. 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

Batch precision for TDS was measured through the analysis of laboratory duplicates. The laboratory analyzed sample PZ-25 in duplicate, and the RPD was within QC limits indicating good analytical precision.

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event, as previously described. 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.

USEPA, 2014. *EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, Final, EPA-540-R-013-001, August 2014.

Prepared by/Date: DWK 03/23/21
Checked By/Date: JAH 03/24/21

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92525919
SAMPLING DATES: March 3, 4, and 8, 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
PZ-1D-0321	PZ-1D	N	92525919	SW6020B	Antimony	0.00093	J, B	U*	BL	mg/L
PZ-1D-0321	PZ-1D	N	92525919	SW6020B	Boron	0.01	J	J	--	mg/L
PZ-1D-0321	PZ-1D	N	92525919	SW6020B	Chromium	0.0018	J	J	--	mg/L
PZ-1D-0321	PZ-1D	N	92525919	SW6020B	Lead	0.000055	J	J	--	mg/L
PZ-1D-0321	PZ-1D	N	92525919	SW6020B	Molybdenum	0.00076	J	J	--	mg/L
PZ-2D-0321	PZ-2D	N	92525919	SW6020B	Antimony	0.0003	J, B	U*	BL	mg/L
PZ-2D-0321	PZ-2D	N	92525919	SW6020B	Boron	0.013	J	J	--	mg/L
PZ-2D-0321	PZ-2D	N	92525919	SW6020B	Chromium	0.0028	J	J	--	mg/L
PZ-2D-0321	PZ-2D	N	92525919	SW6020B	Lead	0.000062	J	J	--	mg/L
PZ-2D-0321	PZ-2D	N	92525919	SW6020B	Lithium	0.0019	J	J	--	mg/L
PZ-7D-0321	PZ-7D	N	92525919	SW6020B	Chromium	0.0024	J	J	--	mg/L
PZ-7D-0321	PZ-7D	N	92525919	SW6020B	Lead	0.000041	J	J	--	mg/L
PZ-7D-0321	PZ-7D	N	92525919	SW6020B	Lithium	0.0031	J	J	--	mg/L
PZ-7D-0321	PZ-7D	N	92525919	SW6020B	Selenium	0.0018	J	J	--	mg/L
PZ-14-0321	PZ-14	N	92525919	SW6020B	Boron	0.028	J	J	--	mg/L
PZ-14-0321	PZ-14	N	92525919	SW6020B	Chromium	0.00097	J	J	--	mg/L
PZ-15-0321	PZ-15	N	92525919	SW6020B	Lithium	0.0014	J	J	--	mg/L
PZ-15-0321	PZ-15	N	92525919	SW6020B	Thallium	0.00022	J	J	--	mg/L
PZ-16-0321	PZ-16	N	92525919	SW6020B	Chromium	0.0012	J	J	--	mg/L
PZ-17-0321	PZ-17	N	92525919	SW6020B	Antimony	0.00055	J, B	U*	BL	mg/L
PZ-17-0321	PZ-17	N	92525919	SW6020B	Lithium	0.002	J	J	--	mg/L
PZ-17-0321	PZ-17	N	92525919	SW6020B	Thallium	0.00039	J	J	--	mg/L
PZ-18-0321	PZ-18	N	92525919	SW6020B	Lithium	0.0029	J	J	--	mg/L
PZ-19-0321	PZ-19	N	92525919	E300.0	Fluoride	0.058	J	J	--	mg/L
PZ-19-0321	PZ-19	N	92525919	SW6020B	Lithium	0.015	J	J	--	mg/L
PZ-19-0321	PZ-19	N	92525919	SW6020B	Molybdenum	0.0021	J	J	--	mg/L
PZ-19-0321	PZ-19	N	92525919	SW6020B	Selenium	0.0033	J	J	--	mg/L
PZ-19-0321	PZ-19	N	92525919	SW6020B	Thallium	0.00072	J	J	--	mg/L
PZ-23A-0321	PZ-23A	N	92525919	SW6020B	Antimony	0.0017	J, B	U*	BL	mg/L
PZ-23A-0321	PZ-23A	N	92525919	SW6020B	Chromium	0.0015	J	J	--	mg/L

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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
PZ-23A-0321	PZ-23A	N	92525919	SW6020B	Cobalt	0.00049	J	J	--	mg/L
PZ-23A-0321	PZ-23A	N	92525919	SW6020B	Lead	0.000058	J	J	--	mg/L
PZ-23A-0321	PZ-23A	N	92525919	SW6020B	Lithium	0.001	J	J	--	mg/L
PZ-23A-0321	PZ-23A	N	92525919	SW6020B	Selenium	0.0025	J	J	--	mg/L
PZ-23A-0321	PZ-23A	N	92525919	SW6020B	Thallium	0.00017	J	J	--	mg/L
DUP-2-0321	PZ-23A	FD	92525919	SW6020B	Antimony	0.00057	J, B	U*	BL	mg/L
DUP-2-0321	PZ-23A	FD	92525919	SW6020B	Chromium	0.0015	J	J	--	mg/L
DUP-2-0321	PZ-23A	FD	92525919	SW6020B	Cobalt	0.0005	J	J	--	mg/L
DUP-2-0321	PZ-23A	FD	92525919	SW6020B	Lead	0.00012	J	J	--	mg/L
DUP-2-0321	PZ-23A	FD	92525919	SW6020B	Lithium	0.0011	J	J	--	mg/L
DUP-2-0321	PZ-23A	FD	92525919	SW6020B	Selenium	0.0024	J	J	--	mg/L
DUP-2-0321	PZ-23A	FD	92525919	SW6020B	Thallium	0.00015	J	J	--	mg/L
EB-1-0321	Equipment Blank	N	92525919	SW6020B	Antimony	0.00032	J, B	U*	BL	mg/L
PZ-25-0321	PZ-25	N	92525919	E300.0	Sulfate	39.2		J	PJ, M+	mg/L
PZ-25-0321	PZ-25	N	92525919	SW6020B	Cobalt	0.0016	J	J	--	mg/L
PZ-25-0321	PZ-25	N	92525919	SW6020B	Lithium	0.0061	J	J	--	mg/L
PZ-25-0321	PZ-25	N	92525919	SW6020B	Thallium	0.00036	J	J	--	mg/L
DUP-1-0321	PZ-25	FD	92525919	E300.0	Sulfate	39.2	M1	J	M+	mg/L
DUP-1-0321	PZ-25	FD	92525919	SW6020B	Cobalt	0.0016	J	J	--	mg/L
DUP-1-0321	PZ-25	FD	92525919	SW6020B	Lithium	0.0061	J	J	--	mg/L
DUP-1-0321	PZ-25	FD	92525919	SW6020B	Thallium	0.00036	J	J	--	mg/L
PZ-31-0321	PZ-31	N	92525919	E300.0	Sulfate	0.6	J	J	--	mg/L
PZ-31-0321	PZ-31	N	92525919	SW6020B	Boron	0.0087	J	J	--	mg/L
PZ-31-0321	PZ-31	N	92525919	SW6020B	Chromium	0.0015	J	J	--	mg/L
PZ-32-0321	PZ-32	N	92525919	SW6020B	Boron	0.022	J	J	--	mg/L

Notes:
Laboratory Qualifiers:
B = Analyte was detected in the associated method blank.
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
M1 = Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

TABLE 1
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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

Reason Codes:
BL = Laboratory blank contamination. The result should be considered "not-detected".
BN = Negative laboratory blank contamination.
M+ = MS and MSD recoveries outside acceptance limits. The result may be biased high.
PJ = Professional judgment
-- = No Reason Code assigned for values detected between the method detection limit (MDL) and the reporting limit (RL);estimated quantitation.

Validation Qualifiers:
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only. The associated numerical value is the approximate concentration of
U* = This analyte should be considered “not-detected” because it was detected in an associated blank at a similar level.

Prepared by/Date: DWK 03/23/21
Checked by/Date: JAH 03/24/21

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 15
Project No: 6122160170.2103.****
Method: Metals by SW6010D/SW6020B
Laboratory and Lot: Pace SDG: 92525919 (Pace – Peachtree Corners, GA)
Reviewer/Date: D. Knaub 03/23/21 **Senior Reviewer/Date:** JAH 03/23/21

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)** 4.1 °C. OK
X			**Holding times met (180 days)** OK
	X		**QC Blanks Review – any MB results above RL?**

Method Blanks:
p. 30 SW6010D MB 3193025 (Ca only) = ND

p. 31 SW6020B MB 3193041 Sb = 0.0003 J x5 = **0.0015 mg/L**
Flag assoc. results "U*": PZ-23A, DUP-2, EB-1, PZ-1D, PZ-17, PZ-2D
Reason Code: **BL**

Field/Equipment Blanks:
EB-1 *(associated with PZ-2D only)*
Sb = < 0.00032 U* *Flagged for MB, no additional flags.*

FB-1 = ND *(associated with all samples)*

YES	NO	NA	COMMENTS
X			**Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)** p. 30 SW6010D LCS 3193026 – Ca =105% OK p. 31 SW6020B LCS 3193042 – All OK
X			**Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**

PZ-25 = Dup-1

Constituent	Parent Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff & RL	
Ca	96.8	90.9	6.3	
Ba	0.12	0.12	0.0	
B	0.2	0.2	0.0	
Co	0.0016 J	0.0016 J	0	0.005
Li	0.0061 J	0.0061J	0	0.03
Tl	0.00036J	0.00036J	0	0.001

PZ-23A = Dup-2

Constituent	Parent Conc (mg/L)	Dup (mg/L)	RPD/Diff & RL
Ca	154	153	0.65
Ba	0.039	0.039	0
B	0.16	0.17	5.9
Cr	0.0015 J	0.0015 J	0
Co	0.00049J	0.0005 J	0.00001 0.005
Pb	0.000058 J	0.00012 J	0.000062 0.001
Li	0.001J	0.0011J	0.0001 0.03
Se	0.0025 J	0.0024 J	0.0001 0.005
Tl	0.00017J	0.00015J	0.00002 0.001

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).

☒ **Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)**

p. 30 SW6010D (Ca only) **– PZ-32** Ca = 340, 143% RPD = 3

No flag necessary, parent result > 4x spike

p. 31-32 SW6020B **PZ-14** - All %rec and RPDs OK

☒ **Post Digestion Spike recoveries within limits (if applicable: 80-120%)**

Not reported for L2 data package

☒ **Total metals vs dissolved metals (RPD < 20% or diff. < RL)**

No dissolved results in this SDG

☒ **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 15
Project No: 6122160170.2103.****
Method: Hg by SW7470A
Laboratory and Lot: Pace SDG: 92525919 (Pace – Peachtree Corners, GA)
Reviewer/Date: D. Knaub 03/23/21 **Senior Reviewer/Date:** JAH 03/23/21

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)**
4.1°C. OK

X **Holding times met (Hg = 28 days)**
OK

X **QC Blanks Review – any MB results above RL?**
Method Blanks:
p. 33 MB 3185623 Hg = ND p. 34 MB 3190111 Hg = ND p. 35 MB 3197255 Hg = ND

Field/Equipment Blanks:
EB-1 Hg = ND *(associated with PZ-2D only)* FB-1 Hg = ND

X **Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)**
p. 33 LCS 3185624 Hg = 109% OK p. 34 LCS 3190112 Hg = 97% OK
p. 35 LCS 3197256 Hg = 96% OK

X **Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**
PZ-25 = Dup-1
Both samples ND for Hg - OK
PZ-23A = Dup-2
Both samples ND for Hg - OK

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. 33 - *not a project sample from this SDG* p. 34- *not a project sample from this SDG*
p. 35 **PZ-18** Hg = 95, 99% RPD = 4 OK

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 15
Project No: 6122160170.2103.****
Method: Anions (chloride, fluoride, sulfate) by EPA 300
Laboratory and Lot: Pace SDG: 92525919 (Pace – Peachtree Corners, GA)
Reviewer/Date: D. Knaub 03/23/21 **Senior Reviewer/Date:** JAH 03/24/21

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)**
4.1°C. OK

X **Holding times met (F –28 days)**
OK

X **QC Blanks Review – Any detections above RL?**
Method Blanks:
p. 40 MB 3195134 = ND p. 41 MB 3195315 = ND
p. 42 MB 3195321 = ND p. 43 MB 3196222 = ND
Field/Equipment Blanks:
EB-1 = ND; FB-1 = ND

X **Laboratory Control Sample (LCS) recovery within lab limits (90-110%)**
p. 40 LCS 3195135 = All OK p. 41 LCS 3195316 = All OK
p. 42 LCS 3195322 = All OK p. 43 LCS 3196223 = All OK

X **Lab Duplicate - Field Duplicate precision goals met (20%)**

PZ-25 = Dup-1

Constituent	Parent Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff & RL
chloride	1.6	1.6	0
fluoride	0.12	0.12	0
sulfate	39.2	39.2	0

PZ-23A = Dup-2

Constituent	Parent Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff & RL
chloride	4.7	4.7	0
sulfate	66	66.5	0.75

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. 40 **DUP-1** sulfate=112, 112% RPD=0 **Flag result "J" Reason Code: M+** and professional judgment to **flag parent sample** (PZ-25) **"J" Reason Code: PJ**
p. 41 Not samples from this SDG
p. 42 **PZ-16** - % rec and RPDs OK
p. 43 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 15
Project No: 6122160170.2103.****
Method: TDS by SM2540C
Laboratory and Lot: Pace SDG: 92525919 (Pace – Peachtree Corners, GA)
Reviewer/Date: D. Knaub 03/23/21 **Senior Reviewer/Date:** JAH 03/24/21

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)**

4.1°C. OK

X **Holding times met (TDS = 7 days)**

OK

X **QC Blanks Review – any MB results above RL?**

Method Blanks:
p. 36 MB 3186276 = ND p. 37 MB 3186295 = ND
p. 38 MB 3186921 = ND p. 39 MB 3189891 = ND
Field/Equipment Blanks:
EB-1 = ND *(associated with PZ-2D only)*
FB-1 = ND

X **Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)**

p. 36 LCS 3186277 = 96% OK p. 37 LCS 3186296 = 92% OK
p. 38 LCS 3186922 = 97% OK p. 39 LCS 3189892 = 92% OK

X **Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**

PZ-25 = Dup-1

Constituent	Parent Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff & RL
TDS	267	256	4.2

PZ-23A = Dup-2

Constituent	Parent Conc (mg/L)	Dup (mg/L)	RPD/Diff & RL
TDS	444	434	2.3

Lab Duplicates: (only project samples are listed)
p. 37 **PZ-25** – RPD = 6 OK

(NA) 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 #15
Wood Project Number: 6122160170.2103.****
Site: Ash Ponds 1&2 - Plant Mitchell, Georgia
Matrix: Groundwater

Pace SDG Nos: 92525908

Introduction

A data quality evaluation (DQE) was performed on the radium data reported for the Semiannual Event #15 (March 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 National Functional Guidelines for Inorganic Data Review (USEPA, 2014), 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 92525919. 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-32	03/03/21	II	PZ-33	03/04/21	II
PZ-14	03/03/21	II	PZ-15	03/04/21	II
PZ-32A	03/03/21	II	PZ-7D	03/04/21	II
PZ-1D	03/03/21	II	PZ-2D	03/08/21	II
PZ-31	03/03/21	II			
PZ-25	03/03/21	II	**QC Samples**		
PZ-19	03/03/21	II	DUP-1	03/03/21	II
PZ-17	03/04/21	II	DUP-2	03/03/21	II
PZ-18	03/04/21	II	EB-1	03/03/21	II
PZ-16	03/04/21	II	FB-1	03/04/21	II

These samples were collected from Ash Ponds 1 and 2 on March 3, 4, and 8, 2021. Sample DUP-1 is a field duplicate of PZ-25, and DUP-2 is a field duplicate of PZ-23A. The field QC blanks include samples FB-1 (a field blank sample) and EB-1 (an equipment blank). The EB-01 is 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 equipment blank contamination and laboratory duplicate precision.

Holding Times

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

Method Blanks

The laboratory method blanks did not contain reportable concentrations of Ra-226 or Ra-228 above the MDC.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Laboratory Duplicate Precision

Laboratory duplicate analyses were not performed an any samples in this SDG, and the LCS duplicate RPDs were within QC limits.

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-25, and DUP-2 is associated with monitoring well PZ-23A. Acceptable duplicate precision was achieved, and no qualification of the associated results was required.

Sampling Accuracy (Equipment Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. The field blank sample (FB-1) and equipment blank sample (EB-1) contained both 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.

Carrier and Tracer Yield Recoveries

The carrier and tracer yield recoveries for the samples and QC were within the QC limit of 30% to 110%.

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.

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.

USEPA, 2014. *EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, Final, EPA-540-R-013-001, August 2014.

Prepared by/Date: DWK 04/07/2021
Checked By/Date: JAH 04/08/21

TABLE 1
SUMMARY OF DATA QUALIFIERS

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 15
Project No: 6122160170.2103.****
Method: Radium-226, Radium-228, Total Radium by EPA 9315 and EPA 9320
Laboratory and Lot: Pace SDG: 92525908 (Pace-Greensburg, PA)
Reviewer/Date: D. Knaub 04/07/2021 **Senior Reviewer/Date:** J. Hartness 04/08/21

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)**
4.1 °C. OK

X **Holding times met (180 days)**
OK

X **QC Blanks Review (net blank value <MDC)**
p. 29 Ra-226 (2115335) = present but <MDC
p. 30 Ra-228 (2115671) = present but <MDC
p. 31 Ra-226 (2115665) =present but <MDC
p. 32 Ra-228 (2118824) = present but <MDC

Field/Equipment Blanks:
p. 15 EB-1 (*assoc. w/ PZ-2D*) – present but <MDC
p. 25 FB-1– present but <MDC

X **Laboratory Control Sample (LCS) recovery within lab limits**
(*Ra-226=75-125%, Ra-228=60-135%; RPD = RER (2σ) <3)*
p. 41-42 LCS/LCSD 59287 Ra-226 = 104.82, 98.84% RER = 0.756
p. 42 LCS 59287 Ra-226 = 104.82%
p. 43 LCS 59289 Ra-226 = 108.83%
p. 44 LCS/LCSD 59289 Ra-226 = 108.83, 105.27% RER = 0.541
p. 45 LCS/LCSD 59272 Ra-228 = 92.76, 86.70% RER = 0.470
p. 46 LCS/LCSD 59356 Ra-228 = 80.15, 64.70% RER = 1.210

X **Lab Duplicate - Field Duplicate precision goals met (lab limits); lab dup every 10 samples** *(RPD = RER (2σ) <3)*

Constituent	PZ-25 (pCi/L)	Dup-1 (pCi/L)	RPD
Ra-226	0.518	< MDC	NC
Ra-228	<MDC	< MDC	NC
tot. radium	<MDC	< MDC	NC

YES NO NA COMMENTS

☒ **Lab Duplicate - Field Duplicate (cont.)**

Constituent	PZ-23A (pCi/L)	Dup-2 (pCi/L)	RPD
Ra-226	<MDC	<MDC	NC
Ra-228	<MDC	<MDC	NC
tot. radium	< MDC	<MDC	NC

p. 41 Lab dup – Not a sample from this SDG RPD =5.88
p. 42 Lab dup – Not a sample from this SDG RPD =29.70 - *no flags, non-project*
p. 43 Lab dup – Not a sample from this SDG RPD =49.44 - *no flags, non-project*
p. 44 Lab dup – Not a sample from this SDG RPD = 3.32
p. 45 LCS/LCSD RPD = 6.75
p. 46 LCS/LCSD RPD = 21.34

☒ **Matrix Spike recoveries and RPDs within limits (if applicable)**
NA - Pace only performs MS/MSD on drinking water samples

☒ **Carrier/Tracer Yield Recovery Ra-226 (Carrier: Ba);**
Ra-228 (Carrier Ba, Tracer: Y) (30-110%)
All ok

☒ **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**.

Checked each sample in this SDG, all OK (18 samples total)

RPD for August and October 2020, and March 2021

Parameter	Concentration 1	Concentration 2	
8/26/2020	**PZ-25 (DUP-1)**	**PZ-25**	**RPD**
Barium	0.10	0.10	0%
8/26/2020	**PZ-23A (DUP-2)**	**PZ-23A**	**RPD**
Barium	0.037	0.039	5%
10/7/2020	**PZ-19 (FD-01)**	**PZ-19**	**RPD**
Barium	0.053	0.054	2%
10/7/2020	**PZ-25 (FD-02)**	**PZ-25**	**RPD**
Barium	0.11	0.11	0%
3/3/2021	**PZ-25 (DUP-01)**	**PZ-25**	**RPD**
Barium	0.12	0.12	0%
3/3/2021	**PZ-23A (DUP-02)**	**PZ-23A**	**RPD**
Barium	0.039	0.039	0%
10/7/2020	**PZ-19 (FD-01)**	**PZ-19**	**RPD**
Boron	0.55	0.52	6%
10/7/2020	**PZ-25 (FD-02)**	**PZ-25**	**RPD**
Boron	0.19	0.18	5%
3/3/2021	**PZ-25 (DUP-01)**	**PZ-25**	**RPD**
Boron	0.20	0.2	0%
3/3/2021	**PZ-23A (DUP-02)**	**PZ-23A**	**RPD**
Boron	0.17	0.16	6%
10/7/2020	**PZ-19 (FD-01)**	**PZ-19**	**RPD**
Calcium	138	144	4%
10/7/2020	**PZ-25 (FD-02)**	**PZ-25**	**RPD**
Calcium	85.7	84.2	2%
3/3/2021	**PZ-25 (DUP-01)**	**PZ-25**	**RPD**
Calcium	90.9	96.8	6%
3/3/2021	**PZ-23A (DUP-02)**	**PZ-23A**	**RPD**
Calcium	153	154	1%
10/7/2020	**PZ-19 (FD-01)**	**PZ-19**	**RPD**
Chloride	4.5	4.5	0%
10/7/2020	**PZ-25 (FD-02)**	**PZ-25**	**RPD**
Chloride	1.8	1.8	0%
3/3/2021	**PZ-25 (DUP-01)**	**PZ-25**	**RPD**
Chloride	1.6	1.6	0%
3/3/2021	**PZ-23A (DUP-02)**	**PZ-23A**	**RPD**
Chloride	4.7	4.7	0%
8/26/2020	**PZ-25 (DUP-1)**	**PZ-25**	**RPD**
Fluoride	0.14	0.14	0%
10/7/2020	**PZ-25 (FD-02)**	**PZ-25**	**RPD**
Fluoride	0.14	0.13	7%
3/3/2021	**PZ-25 (DUP-01)**	**PZ-25**	**RPD**
Fluoride	0.12	0.12	0%
10/7/2020	**PZ-19 (FD-01)**	**PZ-19**	**RPD**
Radium	1.09	0.893	20%
10/7/2020	**PZ-19 (FD-01)**	**PZ-19**	**RPD**
Sulfate	84.0	83.3	1%
10/7/2020	**PZ-25 (FD-02)**	**PZ-25**	**RPD**
Sulfate	38.3	38.1	1%
3/3/2021	**PZ-25 (DUP-01)**	**PZ-25**	**RPD**
Sulfate	39.2	39.2	0%
3/3/2021	**PZ-23A (DUP-02)**	**PZ-23A**	**RPD**
Sulfate	66.5	66	1%
10/7/2020	**PZ-19 (FD-01)**	**PZ-19**	**RPD**
TDS	496	492	1%
10/7/2020	**PZ-25 (FD-02)**	**PZ-25**	**RPD**
TDS	288	280	3%
3/3/2021	**PZ-25 (DUP-01)**	**PZ-25**	**RPD**
TDS	256	267	4%
3/3/2021	**PZ-23A (DUP-02)**	**PZ-23A**	**RPD**
TDS	434	444	2%

For a RPD to be representative of the process, the concentrations must be five times the RL in accordance with US EPA guidance on inorganic data review, (US EPA August 2014). The RPD values of August and October 2020 sample concentrations that were five times the RL ranged within the allowable 20% RPD indicating good sampling precision.

The RPD for Radium in PZ-19/FD-01 in October 2020 was at 20%. The concentration of Radium in both samples is low (less than five times the MDC): consequently, slight variation between the two samples resulted in an elevated RPD. The Radium results are considered valid and appropriate for use in statistical analysis.

The August and October 2020 and March 2021 analytical results were compared to MCLs and secondary MCLs to evaluate groundwater quality and used in the statistical evaluation. The August and October 2020 and March 2021 constituent concentrations were within the historical range of concentrations. The data are considered usable for meeting project objectives and the results are considered valid.

Product Name: Low-Flow System

Date: 2020-08-25 16:02:43

Project Information:		Pump Information:	
Operator Name	Ever Guillen	Pump Model/Type	QED
Company Name	Wood	Tubing Type	HDPE
Project Name	Plant Mitchell CCR Phase 2	Tubing Diameter	.17 in
Site Name	PZ-1D	Tubing Length	61.21 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	369557		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	56.21 ft

Well Information:		Pumping Information:	
Well ID	PZ-1D	Final Pumping Rate	0 mL/min
Well diameter	2 in	Total System Volume	0.7532061 L
Well Total Depth	61.21 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	52.98 ft	Total Volume Pumped	9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:40:03	1500.02	25.87	7.37	225.89	8.81	54.33	2.55	51.40
Last 5	15:45:03	1800.02	26.09	7.42	224.46	7.42	54.33	2.52	48.57
Last 5	15:50:03	2100.02	25.87	7.45	223.84	5.75	54.33	2.52	46.28
Last 5	15:55:03	2400.02	25.94	7.47	222.11	6.04	54.33	2.63	44.51
Last 5	16:00:03	2700.02	25.79	7.49	223.39	4.71	54.33	2.72	43.38
Variance 0			-0.23	0.03	-0.62			0.00	-2.29
Variance 1			0.07	0.02	-1.73			0.12	-1.77
Variance 2			-0.15	0.01	1.28			0.09	-1.13

Notes

PZ-1D Sample time=1605

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-26 10:54:48

Project Information:		Pump Information:	
Operator Name	Daniel Howard	Pump Model/Type	QED Sample Pro
Company Name	Wood E&IS	Tubing Type	HDPE
Project Name	Plant Mitchell CCR Phase II	Tubing Diameter	.17 in
Site Name	PZ-2D	Tubing Length	80.2 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	369555		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	75.2 ft

Well Information:		Pumping Information:	
Well ID	PZ-2D	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	0.5479665 L
Well Total Depth	80.21 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	36.1 ft	Total Volume Pumped	7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	10:30:40	900.03	20.66	7.96	179.57	3.18	36.25	1.79	115.71
Last 5	10:35:40	1200.03	20.64	7.96	177.01	2.41	36.25	1.93	115.24
Last 5	10:40:40	1500.03	20.69	7.96	175.52	2.00	36.25	2.01	115.18
Last 5	10:45:40	1800.03	20.59	7.96	173.95	0.95	36.25	2.09	114.75
Last 5	10:50:40	2100.03	20.60	7.97	171.46	1.10	36.25	2.10	114.03
Variance 0			0.05	-0.00	-1.49			0.08	-0.06
Variance 1			-0.10	0.00	-1.57			0.08	-0.43
Variance 2			0.01	0.01	-2.48			0.02	-0.72

Notes

PZ-2D sample time 1052.

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-26 15:34:33

Project Information:		Pump Information:	
Operator Name	Ever Guillen	Pump Model/Type	QED
Company Name	Wood	Tubing Type	HDPE
Project Name	Plant Mitchell CCR Phase 2	Tubing Diameter	.17 in
Site Name	PZ-7D	Tubing Length	60.37 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	369557		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	55.37 ft

Well Information:		Pumping Information:	
Well ID	PZ-7D	Final Pumping Rate	0 mL/min
Well diameter	2 in	Total System Volume	0.7494568 L
Well Total Depth	60.37 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	33.28 ft	Total Volume Pumped	8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:11:56	1200.03	24.82	7.02	506.01	5.57	33.48	0.36	10.29
Last 5	15:16:56	1500.03	23.85	7.03	504.40	4.64	33.48	0.34	14.72
Last 5	15:21:56	1800.03	23.92	7.03	505.49	2.49	33.48	0.31	17.07
Last 5	15:26:56	2100.03	24.05	7.02	506.80	1.23	33.48	0.30	18.47
Last 5	15:31:56	2399.88	24.28	7.01	508.25	0.93	33.48	0.28	19.02
Variance 0			0.07	0.00	1.09			-0.03	2.35
Variance 1			0.13	-0.00	1.30			-0.02	1.40
Variance 2			0.22	-0.01	1.45			-0.02	0.54

Notes

Sample time =1535

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-26 14:11:46

Project Information:		Pump Information:	
Operator Name	Ever Guillen	Pump Model/Type	QED
Company Name	Wood	Tubing Type	HDPE
Project Name	Plant Mitchell CCR Phase 2	Tubing Diameter	.17 in
Site Name	PZ-14	Tubing Length	53.20 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	369557		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	48.20 ft

Well Information:		Pumping Information:	
Well ID	PZ-14	Final Pumping Rate	0 mL/min
Well diameter	2 in	Total System Volume	0.7174541 L
Well Total Depth	53.20 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	44.23 ft	Total Volume Pumped	6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	13:50:02	600.03	26.50	7.01	473.25	10.00	44.47	4.70	39.22
Last 5	13:55:02	900.03	26.36	7.00	472.63	7.31	44.47	4.62	42.18
Last 5	14:00:02	1200.03	25.93	6.98	471.99	3.71	44.47	4.57	42.99
Last 5	14:05:02	1500.03	26.40	6.98	473.82	1.18	44.47	4.52	43.35
Last 5	14:10:02	1800.03	26.35	6.98	474.15	0.98	44.47	4.52	43.45
Variance 0			-0.44	-0.01	-0.64			-0.06	0.81
Variance 1			0.48	0.00	1.83			-0.04	0.37
Variance 2			-0.05	-0.00	0.33			-0.01	0.09

Notes

Sample time =1410

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-26 13:05:15

Project Information:		Pump Information:	
Operator Name	Andreas Shoredits	Pump Model/Type	QED
Company Name	Wood	Tubing Type	LDPE
Project Name	Plant Mitchell CCR Phase II	Tubing Diameter	0.17 in
Site Name	PZ-15	Tubing Length	79 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	369323		
Turbidity Make/Model	HACH 2100Q	Pump placement from TOC	78.2 ft

Well Information:		Pumping Information:	
Well ID	PZ-15	Final Pumping Rate	295 mL/min
Well diameter	2.00 in	Total System Volume	0.8326105 L
Well Total Depth	83.22 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	9.7 in
Depth to Water	31.15 ft	Total Volume Pumped	10.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	12:01:52	613.02	23.36	7.18	525.61	1.53	31.38	0.17	-87.66
Last 5	12:06:52	913.02	23.22	7.14	527.75	0.80	31.39	0.13	-80.58
Last 5	12:11:52	1213.02	23.19	7.12	527.31	1.00	31.40	0.12	-73.39
Last 5	12:16:52	1513.26	23.13	7.09	528.54	1.10	31.41	0.13	-69.04
Last 5	12:21:52	1813.27	23.10	7.08	529.20	1.13	31.43	0.14	-66.66
Variance 0			-0.04	-0.02	-0.45			-0.00	7.19
Variance 1			-0.06	-0.03	1.23			0.01	4.35
Variance 2			-0.03	-0.01	0.66			0.01	2.38

Notes

Start purging well @ 11:52, stop @ 21:21; Purge rate maintained between 290-295 ml/min; Water has strong sulfurous odor; Collect sample @ 12:25; pH during sample collection is 7.08; Weather is sunny 32 degrees C

Grab Samples

PZ-15

Groundwater sample

Product Name: Low-Flow System

Date: 2020-08-26 14:46:54

Project Information:		Pump Information:	
Operator Name	Andreas Shoredits	Pump Model/Type	QED
Company Name	Wood	Tubing Type	LDPE
Project Name	Plant Mitchell CCR Phase II	Tubing Diameter	0.17 in
Site Name	PZ-16	Tubing Length	50 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	369323		
Turbidity Make/Model	HACH 2100Q	Pump placement from TOC	48.2 ft

Well Information:		Pumping Information:	
Well ID	PZ-16	Final Pumping Rate	300 mL/min
Well diameter	2.00 in	Total System Volume	0.7031711 L
Well Total Depth	53.19 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.4 in
Depth to Water	34.91 ft	Total Volume Pumped	7.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	13:44:53	300.03	22.85	7.33	466.81	4.70	35.06	1.78	119.66
Last 5	13:49:53	600.02	22.69	7.24	470.44	1.37	35.03	1.24	121.76
Last 5	13:54:53	900.08	22.74	7.21	467.42	0.75	35.04	1.13	121.02
Last 5	13:59:53	1200.04	22.52	7.20	466.04	0.40	35.04	1.09	123.19
Last 5	14:04:53	1500.02	22.43	7.18	465.16	0.77	35.04	1.12	122.95
Variance 0			0.05	-0.03	-3.02			-0.11	-0.74
Variance 1			-0.21	-0.01	-1.37			-0.03	2.17
Variance 2			-0.09	-0.02	-0.88			0.02	-0.24

Notes

Start purging well @ 13:40, stop @ 14:04; Lowered initial purge rate of 320 ml/min to 290-300 ml/min @ 13:45; Collect sample @ 14:10; pH during sample collection is 7.18; Weather is sunny 33 degrees C

Grab Samples

PZ-16

Groundwater sample

Product Name: Low-Flow System

Date: 2020-08-26 16:34:21

Project Information:		Pump Information:	
Operator Name	Andreas Shoredits	Pump Model/Type	QED
Company Name	Wood	Tubing Type	LDPE
Project Name	Plant Mitchell CCR Phase II	Tubing Diameter	0.17 in
Site Name	PZ-17	Tubing Length	59 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	369323		
Turbidity Make/Model	HACH 2100Q	Pump placement from TOC	57.7 ft

Well Information:		Pumping Information:	
Well ID	PZ-17	Final Pumping Rate	290 mL/min
Well diameter	2.00 in	Total System Volume	0.7433419 L
Well Total Depth	62.70 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.4 in
Depth to Water	33.16 ft	Total Volume Pumped	8.1 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	15:23:24	600.02	22.89	7.12	621.34	1.11	33.29	0.35	-76.56
Last 5	15:28:24	900.03	22.69	7.04	621.00	0.73	33.29	0.17	-72.95
Last 5	15:33:24	1200.03	22.62	7.02	623.28	0.42	33.30	0.15	-70.36
Last 5	15:38:24	1500.03	22.55	7.00	624.73	0.55	33.30	0.14	-67.75
Last 5	15:43:24	1800.03	22.57	6.98	625.88	0.73	33.30	0.15	-66.61
Variance 0			-0.07	-0.02	2.27			-0.02	2.58
Variance 1			-0.07	-0.02	1.46			-0.00	2.61
Variance 2			0.01	-0.02	1.15			0.00	1.14

Notes

Start purging well @ 15:15, stop @ 15:43; Initial purge rate of 280 ml/min increased to 290 ml/min @ 15:19; Collect sample @ 15:45; pH during sample collection is 6.98; Weather is sunny 34 degrees C

Grab Samples

PZ-17

Groundwater sample

Product Name: Low-Flow System

Date: 2020-08-27 10:01:14

Project Information:		Pump Information:	
Operator Name	Ever Guillen	Pump Model/Type	QED
Company Name	Wood	Tubing Type	HDPE
Project Name	Plant Mitchell CCR Phase 2	Tubing Diameter	.17 in
Site Name	PZ-18	Tubing Length	63.18 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	369557		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	58.18 ft

Well Information:		Pumping Information:	
Well ID	PZ-18	Final Pumping Rate	0 mL/min
Well diameter	2 in	Total System Volume	0.761999 L
Well Total Depth	63.18 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	29.64 ft	Total Volume Pumped	8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:39:04	1200.03	24.03	6.85	613.81	2.62	29.85	0.15	-7.69
Last 5	09:44:04	1500.03	24.06	6.87	615.33	2.69	29.85	0.15	-5.90
Last 5	09:49:04	1799.89	23.99	6.88	613.52	3.39	29.85	0.16	-4.06
Last 5	09:54:04	2099.89	23.90	6.89	614.52	2.06	29.85	0.16	-2.50
Last 5	09:59:04	2399.88	23.91	6.88	613.24	1.89	29.85	0.16	-0.53
Variance 0			-0.07	0.01	-1.80			0.01	1.84
Variance 1			-0.08	0.01	0.99			0.00	1.57
Variance 2			0.00	-0.01	-1.27			0.00	1.96

Notes

Sample time =1005

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-26 15:37:22

Project Information:		Pump Information:	
Operator Name	Daniel Howard	Pump Model/Type	QED Micropurge
Company Name	Wood E&IS	Tubing Type	HDPE
Project Name	Plant Mitchell CCR Phase II	Tubing Diameter	.25 in
Site Name	PZ-19	Tubing Length	62.6 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	369555		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	57.63 ft

Well Information:		Pumping Information:	
Well ID	PZ-19	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	1.084261 L
Well Total Depth	62.63 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.01 in
Depth to Water	32.56 ft	Total Volume Pumped	7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:13:42	900.17	24.40	6.69	870.86	3.60	32.60	0.24	67.44
Last 5	15:18:42	1200.17	24.40	6.68	863.03	2.83	32.60	0.21	75.32
Last 5	15:23:42	1500.17	24.57	6.68	857.20	2.26	32.61	0.19	80.31
Last 5	15:28:42	1800.17	24.47	6.68	854.34	1.69	32.61	0.19	83.34
Last 5	15:33:42	2100.17	24.68	6.68	853.13	1.15	32.61	0.18	87.43
Variance 0			0.16	-0.00	-5.83			-0.02	4.99
Variance 1			-0.09	0.00	-2.86			-0.00	3.03
Variance 2			0.20	-0.00	-1.22			-0.01	4.08

Notes

PZ-19 sample time 1535.

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-26 10:35:23

Project Information:		Pump Information:	
Operator Name	Andreas Shoredits	Pump Model/Type	QED
Company Name	Wood	Tubing Type	LDPE
Project Name	Plant Mitchell CCR Phase II	Tubing Diameter	0.17 in
Site Name	PZ-23A	Tubing Length	61 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	369323		
Turbidity Make/Model	HACH 2100Q	Pump placement from TOC	59.5 ft

Well Information:		Pumping Information:	
Well ID	PZ-23A	Final Pumping Rate	190 mL/min
Well diameter	2.00 in	Total System Volume	0.7522688 L
Well Total Depth	64.5 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	1.6 in
Depth to Water	50.19 ft	Total Volume Pumped	10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	09:47:33	2100.02	22.43	6.64	777.08	6.72	50.70	2.56	109.12
Last 5	09:52:33	2400.02	22.43	6.64	773.63	5.65	50.70	2.57	105.43
Last 5	09:57:33	2700.02	22.56	6.64	772.02	4.60	50.70	2.57	103.65
Last 5	10:02:33	3000.02	22.57	6.64	769.85	4.17	50.70	2.63	103.48
Last 5	10:07:34	3300.88	22.73	6.64	768.63	3.76	50.70	2.64	102.51
Variance 0			0.13	0.00	-1.61			-0.00	-1.78
Variance 1			0.01	0.00	-2.17			0.06	-0.17
Variance 2			0.16	-0.00	-1.22			0.01	-0.97

Notes

Start purging well @ 09:14, stop @ 10:07; Initial purge rate of 180 ml/min increased to 195-190 ml/min @ 09:18; Water initially has slight white precipitate and small bubbles; Collect sample @ 10:10; Duplicate sample collected; pH during sample collection is 6.64; Weather is sunny 28 degrees C

Grab Samples
PZ-23A
Groundwater sample
DUP-02
Groundwater duplicate sample

Product Name: Low-Flow System

Date: 2020-08-26 13:51:54

Project Information:		Pump Information:	
Operator Name	Daniel Howard	Pump Model/Type	QED Micropurge
Company Name	Wood E&IS	Tubing Type	HDPE
Project Name	Plant Mitchell CCR Phase II	Tubing Diameter	.25 in
Site Name	PZ-25	Tubing Length	63 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	369555		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	58.2 ft

Well Information:		Pumping Information:	
Well ID	PZ-25	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	1.088122 L
Well Total Depth	63.10 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.04 in
Depth to Water	30.57 ft	Total Volume Pumped	7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	13:28:08	900.03	24.66	7.11	476.02	1.81	30.86	0.38	-89.25
Last 5	13:33:08	1200.03	24.60	7.10	474.72	1.03	30.86	0.32	-89.05
Last 5	13:38:08	1500.03	24.68	7.09	475.09	0.91	30.88	0.29	-88.62
Last 5	13:43:08	1800.03	24.58	7.09	474.21	1.07	30.88	0.28	-87.77
Last 5	13:48:08	2100.03	24.62	7.09	472.58	0.95	30.88	0.23	-88.44
Variance 0			0.07	-0.01	0.37			-0.03	0.43
Variance 1			-0.09	-0.00	-0.88			-0.01	0.84
Variance 2			0.04	-0.00	-1.63			-0.05	-0.67

Notes

PZ-25 sample time 1350. Collected DUP-01

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-25 16:29:41

Project Information:		Pump Information:	
Operator Name	Andreas Shoredits	Pump Model/Type	QED
Company Name	Wood	Tubing Type	LDPE
Project Name	Plant Mitchell CCR Phase II	Tubing Diameter	0.17 in
Site Name	PZ-31	Tubing Length	58 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	369323		
Turbidity Make/Model	HACH 2100Q	Pump placement from TOC	56.6 ft

Well Information:		Pumping Information:	
Well ID	PZ-31	Final Pumping Rate	195 mL/min
Well diameter	2.00 in	Total System Volume	0.7388785 L
Well Total Depth	61.60 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.7 in
Depth to Water	39.91 ft	Total Volume Pumped	5.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	15:49:55	600.02	23.27	7.25	471.45	2.94	40.29	4.60	181.18
Last 5	15:54:55	900.02	22.82	7.19	471.73	1.88	40.32	4.66	181.11
Last 5	15:59:55	1200.02	22.69	7.15	470.29	1.60	40.35	4.71	184.16
Last 5	16:04:55	1500.02	22.71	7.15	470.61	1.56	40.35	4.70	185.46
Last 5	16:09:55	1800.02	22.55	7.14	470.14	1.50	40.35	4.68	187.03
Variance 0			-0.14	-0.04	-1.44			0.04	3.04
Variance 1			0.03	0.00	0.32			-0.01	1.30
Variance 2			-0.17	-0.01	-0.47			-0.02	1.57

Notes

Start purging well @ 15:41, stop @ 16:10; Initial purge rate of 220 ml/min reduced to 160 ml/min @ 15:46 and set to final purge rate of 195 ml/min @ 15:51; Collect sample @ 16:15; pH during sample collection is 7.14; Weather is sunny 34 degrees C

Grab Samples

PZ-31

Groundwater sample

Product Name: Low-Flow System

Date: 2020-08-25 15:26:29

Project Information:		Pump Information:	
Operator Name	Andreas Shoredits	Pump Model/Type	QED
Company Name	Wood	Tubing Type	LDPE
Project Name	Plant Mitchell CCR Phase II	Tubing Diameter	0.17 in
Site Name	PZ-32	Tubing Length	60 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	369323		
Turbidity Make/Model	HACH 2100Q	Pump placement from TOC	58.3 ft

Well Information:		Pumping Information:	
Well ID	PZ-32	Final Pumping Rate	285 mL/min
Well diameter	2.00 in	Total System Volume	0.7478054 L
Well Total Depth	65.30 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	38.44 ft	Total Volume Pumped	10.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	14:32:27	1200.02	20.05	7.72	317.90	0.72	38.50	0.34	137.72
Last 5	14:37:27	1500.02	19.97	7.66	318.41	0.84	38.50	0.33	134.74
Last 5	14:42:27	1800.02	19.97	7.61	318.64	0.47	38.50	0.36	133.98
Last 5	14:47:27	2100.02	19.92	7.55	319.06	0.03	38.50	0.42	134.34
Last 5	14:52:27	2400.02	19.91	7.53	319.44	0.09	38.50	0.50	134.60
Variance 0			0.00	-0.04	0.24			0.02	-0.76
Variance 1			-0.05	-0.06	0.42			0.07	0.36
Variance 2			-0.01	-0.02	0.38			0.07	0.26

Notes

Start purging well @ 14:13, stop @ 14:52; Purge rate maintained between 290-285 ml/min; Collect sample @ 14:55; pH during sample collection is 7.53; Weather is sunny 33 degrees C

Grab Samples

PZ-32

Groundwater sample

Product Name: Low-Flow System

Date: 2020-08-26 10:21:39

Project Information:		Pump Information:	
Operator Name	Ever Guillen	Pump Model/Type	QED
Company Name	Wood	Tubing Type	HDPE
Project Name	Plant Mitchell CCR Phase 2	Tubing Diameter	.17 in
Site Name	PZ-33	Tubing Length	73.60 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	369557		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	68.60 ft

Well Information:		Pumping Information:	
Well ID	PZ-33	Final Pumping Rate	0 mL/min
Well diameter	2 in	Total System Volume	0.8085079 L
Well Total Depth	73.60 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	49.63 ft	Total Volume Pumped	7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:59:45	903.03	22.08	6.95	503.43	5.35	50.03	0.15	-4.99
Last 5	10:04:45	1203.03	21.99	6.97	507.85	3.98	50.03	0.14	5.46
Last 5	10:09:45	1503.03	21.96	6.98	507.60	1.97	50.03	0.14	10.69
Last 5	10:14:45	1803.03	21.91	6.99	508.66	0.78	50.03	0.15	13.87
Last 5	10:19:45	2103.03	21.91	6.99	508.72	0.46	50.03	0.15	16.45
Variance 0			-0.03	0.02	-0.25			-0.00	5.23
Variance 1			-0.05	0.01	1.06			0.00	3.18
Variance 2			-0.00	0.00	0.06			0.00	2.58

Notes

Sample time =1020

Grab Samples

Date: 8-25-20
Time: 1430
Prepared By: Ever Guillen
Checked By: ______

Wood.
Project No. 6122160170

Pine Sonde ID: 369557
Pine Handset ID: 306218
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):		21.06
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	758.3
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.	8.78
DO concentration after Calibration (mg/L):		8.55
% 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	-

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)	28.6	~~27.2~~
Reading before Calibration (mS/cm)		1.462
Reading AFTER Calibration (mS/cm)		1.279
Conductivity Cell Constant (unitless):		-

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH **7.0** value before calibration:		7.01
pH **7.0** value after calibration:		6.99
pH **7.0** mV **(range is -50 to +50 mV)**:		-0.5
pH 10 value before calibration:		10.02
pH 10 value after calibration:		9.96
pH 10 mV **(range is -130 to -230 mV)**:		-175.0
pH **4.0** value before calibration:		4.10
pH **4.0** value after calibration:		4.01
pH **4.0** mV **(range is 130 to 230 mV)**:		168.8

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):		30.1
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	240.0
Reading before calibration (mV):		223.2
Reading after calibration (mV):		222.0

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: 9.54	After Cal:	9.96
20 NTU Turbidity Standard	Before Cal: 20.2	After Cal:	20.3
100 NTU Turbidity Standard	Before Cal: 101	After Cal:	100
800 NTU Turbidity Check STD	Before Cal: 826	After Cal:	792
10 NTU Turbidity Check STD	Before Cal: 9.95	After Cal:	9.94
CALIBRATION SUCCESSFUL?			

Date: 8-26-20 | Wood. | Pine Sonde ID: 25975
Time: | Project No. 6122160170 | Pine Handset ID: 30618
Prepared By: Ever Guillen | | Battery Voltage %: 100
Checked By:

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes___ No ✓ Date:___ Time:___	
Current Air Temperature °C (meter reading):		26.48
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	758.4
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.	8.08
DO concentration after Calibration (mg/L):		7.86
% 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	—

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)		26.6
Reading before Calibration (mS/cm)		1.428
Reading AFTER Calibration (mS/cm)		1.279
Conductivity Cell Constant (unitless):		—

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:		7.00
pH **7.0** mV **(range is -50 to +50 mV):**		-2.4
pH 10 value before calibration:		9.95
pH 10 value after calibration:		10.0
pH 10 mV **(range is -130 to -230 mV):**		-174
pH **4.0** value before calibration:		4.17
pH **4.0** value after calibration:		4.00
pH **4.0** mV **(range is 130 to 230 mV):**		166.9

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):		25.9
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	240
Reading before calibration (mV):		231.1
Reading after calibration (mV):		228.0

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: 9.51	After Cal: 9.94
20 NTU Turbidity Standard	Before Cal: 20.4	After Cal: 20.4
100 NTU Turbidity Standard	Before Cal: 100	After Cal: 100
800 NTU Turbidity Check STD	Before Cal: 853	After Cal: 775
10 NTU Turbidity Check STD	Before Cal: 9.64	After Cal: 9.81
CALIBRATION SUCCESSFUL?		

Date: 8-27-20
Time: 800
Prepared By: EVER GUILLEN
Checked By:

Wood.
Project No. 6122160170

Pine Sonde ID: 25475
Pine Handset ID: 30618
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):		25.75
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	758.2
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.	8.30
DO concentration after Calibration (mg/L):		8.14
% 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	—

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)	26.2	~~25.7~~
Reading before Calibration (mS/cm)		1.439
Reading AFTER Calibration (mS/cm)		1.279
Conductivity Cell Constant (unitless):		—

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH **7.0** value before calibration:		7.07
pH **7.0** value after calibration:		7.00
pH **7.0** mV **(range is -50 to +50 mV)**:		-3.7
pH 10 value before calibration:		9.99
pH 10 value after calibration:		10.00
pH 10 mV **(range is -130 to -230 mV)**:		-176.7
pH **4.0** value before calibration:		4.25
pH **4.0** value after calibration:		4.00
pH **4.0** mV **(range is 130 to 230 mV)**:		162.7

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):		24.2
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	240.0
Reading before calibration (mV):		234.5
Reading after calibration (mV):		230.0

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:	~~49~~ 9.61	After Cal: 9.79
20 NTU Turbidity Standard	Before Cal:	19.3	After Cal: 20.2
100 NTU Turbidity Standard	Before Cal:	98.9	After Cal: 101
800 NTU Turbidity Check STD	Before Cal:	821	After Cal: 796
10 NTU Turbidity Check STD	Before Cal:	9.52	After Cal: 10.2
CALIBRATION SUCCESSFUL?			

Date: 08/25/2020
Time: 06:20
Prepared By: A-SHORDDIFS
Checked By: —

Wood.
Project No. 6122160170 iPod

SMARTROLL
Pine ~~Sonde~~ ID: 030616
Pine ~~Handset~~ ID: 025467
Battery Voltage %: 90
Hach 2100Q S/N
Pine #

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes___ No X Date:___ Time:___	
Current Air Temperature °C (meter reading):		30.80
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		1018.3 mbar 30.07 inHg
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	
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		67
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	~~7.74~~
DO concentration after Calibration (mg/L):		
% 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	—

A.S. 08/25/20
100%

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 # 09E438 Exp. 05/21	1.413
Temperature (°C)		23.60
Reading before Calibration (mS/cm)		1.404
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		—

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH			
pH **7.0** value before calibration:	Lot # 09D808 Exp 04/22	~~6.88~~	A.S. 08/25/20 96
pH **7.0** value after calibration:		7.00	
pH **7.0** mV **(range is -50 to +50 mV)**:		-36.1	
pH 10 value before calibration:	Lot # 9GL648 Exp. 12/21	—	23.7°C
pH 10 value after calibration:		10.00	
pH 10 mV **(range is -130 to -230 mV)**:		-207.9	
pH **4.0** value before calibration:	Lot # 09D046 Exp. 04/22	—	23.7°C
pH **4.0** value after calibration:		4.00	
pH **4.0** mV **(range is 130 to 230 mV)**:		132.7	

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP) (Std. 240.0mV)		
Calibration Temperature (°C):	Lot # 09D520 Exp. 01/21	23.56
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	—
Reading before calibration (mV):		24.0
Reading after calibration (mV):		240.3

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 # A0113	Exp 07/21	Before Cal: 19.6	After Cal: 19.3
100 NTU Turbidity Standard	Lot # A9121	Exp. 08/20	Before Cal: 100	After Cal: 99.7
800 NTU Turbidity Standard	Lot # A0111	Exp. 07/21	Before Cal: 787	After Cal: 794
10 NTU Turbidity Check STD	Lot # A9213	Exp. 11/20	Before Cal: 9.88	After Cal: 9.82
___ NTU Turbidity Check STD			Before Cal:	After Cal:
CALIBRATION SUCCESSFUL?				YES

Date: 08/26/2020
Time: 06:25
Prepared By: A-SHOREDFTS
Checked By: —

Wood.
Project No. 6122160170

SMARTROLE
Pine ~~Sonde~~ ID: 025467
iPod Pine ~~Handset~~ ID: ~~025~~030616
Battery Voltage %: 90
Hach 2100Q S/N 12110C021737
Pine #022853

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE	
Was DO membrane changed?	Yes____ No X Date:____ Time:____		
Current Air Temperature °C (meter reading):		24.94	
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		30.06 in Hg	
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		
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.	8.29	100.4%
DO concentration after Calibration (mg/L):			
% 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	—	

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 # 0GE438 Exp 08/21	1.413
Temperature (°C)		22.8
Reading before Calibration (mS/cm)		1.413
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		—

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH			
pH **7.0** value before calibration:	Lot# 0GD808 Exp. 04/22	7.05	23.4°C
pH **7.0** value after calibration:		7.00	
pH **7.0** mV **(range is -50 to +50 mV):**		~~-39.2~~	43.4
pH 10 value before calibration:	Lot # 9GL648 Exp. 12/21	—	23.5°C
pH 10 value after calibration:		10.00	
pH 10 mV **(range is -130 to -230 mV):**		-207.4	
pH **4.0** value before calibration:	Lot # 0GD046 Exp. 04/22	—	23.4°C
pH **4.0** value after calibration:		4.00	
pH **4.0** mV **(range is 130 to 230 mV):**		128.9	

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP) (Std 240.0mV)		
Calibration Temperature (°C):	Lot # Exp.	23.4
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	—
Reading before calibration (mV):		240.7
Reading after calibration (mV):		240.0

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 # A0113	Exp. 07/21	Before Cal: 20.4	After Cal: 20.4
100 NTU Turbidity Standard	Lot # A9121	Exp. 08/20	Before Cal: 101	After Cal: 98.1
800 NTU Turbidity Standard	Lot # A0111	Exp. 07/21	Before Cal: 780	After Cal: 797
10 NTU Turbidity Check STD	Lot # A9213	Exp. 11/20	Before Cal: 9.80	After Cal: 9.63
____ NTU Turbidity Check STD			Before Cal:	After Cal:
CALIBRATION SUCCESSFUL?				YES

Date: 8/25/20
Time: 1320
Prepared By: Daniel Howard
Checked By:

Wood.
Project No.
6122160170.2002

Pine Sonde ID: A 04725
Pine Handset ID: 369956
Battery Voltage %: 50

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		**VALUE**
Was DO membrane changed?	Yes___ No ✓ Date:___ Time:___	
Current Air Temperature °C (meter reading):		34.5
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	757.9
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.	
DO concentration after Calibration (mg/L):		6.95
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	99.4
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	1.0072

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 OGE438 05/21	1.413
Temperature (°C)		33.6
Reading before Calibration (mS/cm)		1.372
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		1.0297

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH **7.0** value before calibration:	Lot 9GK721 11/21	6.98
pH **7.0** value after calibration:	32.9°C	7.86
pH **7.0** mV **(range is -50 to +50 mV)**:		-49.5
pH 10 value before calibration:	Lot 9GL648 12/21	~~9.92~~ 10.94
pH 10 value after calibration:	35.8°C	9.92
pH 10 mV **(range is -130 to -230 mV)**:		-224.8
pH **4.0** value before calibration:	Lot OGD046 4/22	4.79
pH **4.0** value after calibration:	38.2	4.03
pH **4.0** mV **(range is 130 to 230 mV)**:		125.3

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 OGD520 1/21	29.4
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	202
Reading before calibration (mV):		162.0
Reading after calibration (mV):		202

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 A9254 12/20	Before Cal:	After Cal:	19.4
100 NTU Turbidity Standard	Lot A9213 11/20	Before Cal:	After Cal:	98.9
800 NTU Turbidity Standard	Lot A9241 12/20	Before Cal:	After Cal:	782
10 NTU Turbidity Check STD	Lot A9213 11/20	Before Cal:	After Cal:	~~9.77~~ 9.77
<0.1 NTU Turbidity Check STD	Lot A0037 2/22	Before Cal:	After Cal:	
CALIBRATION SUCCESSFUL?				

Hach 2100Q ID: 031426

Date: 8/26/20
Time: 0500
Prepared By: Daniel Howard
Checked By:

Wood.
Project No.
6122160170.2002

Pine Sonde ID: A04725
Pine Handset ID: 369956
Battery Voltage %: 50

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes____ No ✓ Date:____ Time:____	
Current Air Temperature °C (meter reading):		24.9
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	755.4
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.	—
DO concentration after Calibration (mg/L):		8.08
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	98.2
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	1.0198

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 0GE438 05/21	1.413
Temperature (°C)		26.0
Reading before Calibration (mS/cm)		1.386
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		1.0195

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH **7.0** value before calibration:	Lot 9GK721 11/21	7.81
pH **7.0** value after calibration:	26.0°C	7.00
pH **7.0** mV **(range is -50 to +50 mV)**:		-48.0
pH 10 value before calibration:	Lot 9GL648 12/21	10.73
pH 10 value after calibration:	26.1°C	10.00
pH 10 mV **(range is -130 to -230 mV)**:		-219.8
pH **4.0** value before calibration:	Lot 0GD046 4/22	4.93
pH **4.0** value after calibration:	26.4°C	4.00
pH **4.0** mV **(range is 130 to 230 mV)**:		121.9

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):	Lot 0GD520 1/21	26.4
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	227
Reading before calibration (mV):		185.1
Reading after calibration (mV):		227

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 A9254 12/20	Before Cal:	After Cal:	20.2
100 NTU Turbidity Standard Lot A9213 11/20	Before Cal:	After Cal:	101
800 NTU Turbidity Standard Lot A9241 12/20	Before Cal:	After Cal:	813
10 NTU Turbidity Check STD Lot A9213 11/20	Before Cal:	After Cal:	9.92
0.01 NTU Turbidity Check STD Lot A0037 2/22	Before Cal:	After Cal:	0.74
CALIBRATION SUCCESSFUL?			

Hach 2100Q ID: 031426

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-102
Date: 08/26/2020

		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-108
Date	08/26/2020

			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-111
Date: 08/25/2020

		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-13
Date	08/25/2020

			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:

Former ant nest inside protective casing.

Signature and Seal of PE/PG responsible for inspection

[signature]

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-11C
Date: 08/25/2020

		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 needs ID tag.

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-116
Date	08/25/2020

		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-01R
Date: 08/25/2020

			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-02R
Date: 08/25/2020

		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-03R
Date	08/25/2020

			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-1D
Date: 08/24/2020

			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-2D
Date	08/24/2020

			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-2S
Date: 08/24/2020

		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-3D
Date	08/26/2020

		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:

Vegetation overgrown around well pad

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-4P
Date: 08/26/2020

		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:
Vegetation overgrown around well

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-6S
Date: 08/26/2020

		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-7D
Date: 08/25/2020

		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-8D
Date: 08/26/2020

			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:

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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-9D
Date: 08/25/2020

		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-10S
Date: 08/25/2020

		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-11S
Date	

		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-12S
Date: 08/25/2020

		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 total depth is somewhat shallower than construction log; soft bottom.

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-14
Date: 08/25/2020

		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: P7-15
Date: 08/25/2020

		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-16
Date: 08/25/2020

		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-17
Date: 08/25/2020

		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:
Missing well cap, needs to accommodate telemetry cable

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-18
Date: 08/25/2020

		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-19
Date: 08/25/2020

		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:

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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-20
Date	08/26/2020

		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-21
Date: 08/25/2020

			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-22
Date: 08/25/2020

		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-23A
Date: 08/26/2020

		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:
Soil has been excavated around well area (to the east)
Survey point added to well casing.

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-24A
Date:

		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:
Lack of sand/gravel inside of protective casing

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-25
Date: 08/25/2020

		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-26
Date: 08/26/2020

		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: 08/26/2020

		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-28
Date: 08/25/2020

		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-29
Date: 08/25/2020

		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-31
Date: 08/24/2020

		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-32
Date: 08/25/2020

		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 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-33
Date	08/25/2020

			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

Product Name: Low-Flow System

Date: 2020-10-06 11:57:47

Project Information:		Pump Information:	
Operator Name	Ever Guillen	Pump Model/Type	QED
Company Name	WOOD	Tubing Type	HDPE
Project Name	Plant Mitchell CCR	Tubing Diameter	0.17 in
Site Name	PZ-1D	Tubing Length	61.21 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	613229		
Turbidity Make/Model	HACH 2100Q	Pump placement from TOC	56.21 ft

Well Information:		Pumping Information:	
Well ID	PZ-1D	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	0.7532061 L
Well Total Depth	61.21 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	50.72 ft	Total Volume Pumped	12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	11:35:04	2400.02	21.19	7.26	247.79	10.50	52.72	2.04	5.74
Last 5	11:40:04	2700.02	21.37	7.30	249.44	6.54	52.72	2.16	4.25
Last 5	11:45:04	3000.01	21.55	7.32	250.34	3.31	52.72	2.23	3.19
Last 5	11:50:04	3300.01	21.79	7.34	250.87	1.43	52.72	2.28	2.26
Last 5	11:55:04	3600.01	22.04	7.35	251.48	0.61	52.72	2.33	1.18
Variance 0			0.18	0.02	0.90			0.07	-1.06
Variance 1			0.24	0.02	0.53			0.05	-0.94
Variance 2			0.24	0.02	0.61			0.06	-1.07

Notes

Sampled at 1200

Grab Samples

Product Name: Low-Flow System

Date: 2020-10-06 12:19:22

Project Information:		Pump Information:	
Operator Name	Terrell Parker	Pump Model/Type	QED dedicated bladder
Company Name	Wood E&IS	Tubing Type	PE
Project Name	Plant Mitchell CCR	Tubing Diameter	.170 in
Site Name	PZ-2D	Tubing Length	80.2 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	541714		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	75.2 ft

Well Information:		Pumping Information:	
Well ID	PZ-2D	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	0.8379666 L
Well Total Depth	80.42 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	6 in
Depth to Water	33.85 ft	Total Volume Pumped	13.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	11:56:07	1800.01	19.86	8.79	123.20	1.81	34.35	1.56	54.39
Last 5	12:01:07	2100.01	19.88	8.77	126.59	1.67	34.35	1.69	58.77
Last 5	12:06:07	2400.01	19.82	8.76	128.92	1.44	34.35	1.73	61.05
Last 5	12:11:07	2700.01	19.82	8.74	131.65	1.21	34.35	1.80	63.90
Last 5	12:16:07	3000.00	19.78	8.72	133.27	1.40	34.35	1.83	66.45
Variance 0			-0.05	-0.01	2.32			0.04	2.28
Variance 1			0.00	-0.02	2.73			0.07	2.86
Variance 2			-0.04	-0.02	1.62			0.03	2.55

Notes

Start purging at 11:12

Sample time:12:20

Grab Samples

PZ-2D

Groundwater

Product Name: Low-Flow System

Date: 2020-10-07 12:29:07

Project Information:		Pump Information:	
Operator Name	Terrell Parker	Pump Model/Type	QED dedicated bladder
Company Name	Wood E&IS	Tubing Type	PE
Project Name	Plant Mitchell CCR	Tubing Diameter	.170 in
Site Name	PZ-7D	Tubing Length	60 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	541714		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	55.37 ft

Well Information:		Pumping Information:	
Well ID	PZ-7D	Final Pumping Rate	250 mL/min
Well diameter	2 in	Total System Volume	0.7478054 L
Well Total Depth	60.37 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	1.32 in
Depth to Water	31.72 ft	Total Volume Pumped	9.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	12:05:44	900.03	21.85	7.00	553.93	1.81	32.83	0.76	107.35
Last 5	12:10:44	1200.04	21.75	6.99	555.93	1.52	32.83	0.59	110.07
Last 5	12:15:44	1500.04	21.93	6.98	556.95	0.94	32.83	0.47	111.79
Last 5	12:20:44	1800.03	21.92	6.98	554.40	1.07	32.83	0.38	113.58
Last 5	12:25:44	2100.04	22.07	6.98	554.30	1.00	32.83	0.32	114.85
Variance 0			0.18	-0.00	1.02			-0.12	1.72
Variance 1			-0.01	-0.00	-2.55			-0.10	1.79
Variance 2			0.15	-0.00	-0.09			-0.06	1.27

Notes

Start purging at 11:50.
Collect GW sample at 12:30

Grab Samples

PZ-7D

Groundwater

Product Name: Low-Flow System

Date: 2020-10-06 11:44:20

Project Information:		Pump Information:	
Operator Name	Andreas Shoredits	Pump Model/Type	QED
Company Name	Wood E&IS	Tubing Type	HDPE
Project Name	Plant Mitchell	Tubing Diameter	0.17 in
Site Name	PZ-14	Tubing Length	58 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	642533		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	48.20 ft

Well Information:		Pumping Information:	
Well ID	PZ-14	Final Pumping Rate	195 mL/min
Well diameter	2.00 in	Total System Volume	0.7388785 L
Well Total Depth	53.20 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.4 in
Depth to Water	42.27 ft	Total Volume Pumped	4.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 100
Last 5	11:03:44	300.08	23.22	7.06	506.44	1.62	42.54	5.92	65.81
Last 5	11:08:44	600.02	22.23	7.03	515.69	2.25	42.57	5.52	39.52
Last 5	11:13:44	900.02	22.05	7.02	517.29	1.25	42.57	5.37	35.52
Last 5	11:18:44	1200.00	22.00	7.02	519.03	1.01	42.57	5.29	33.90
Last 5	11:23:44	1500.00	22.00	7.01	518.52	0.90	42.57	5.20	33.14
Variance 0			-0.18	-0.01	1.60			-0.15	-4.00
Variance 1			-0.04	-0.01	1.74			-0.09	-1.62
Variance 2			-0.00	-0.00	-0.51			-0.08	-0.76

Notes

Start purging well @ 11:00, stop @ 11:24; Purge rate maintained @ 195 ml/min; Collect sample @ 11:30; pH during sample collection is 7.01; Weather is overcast 72 degrees F

Grab Samples

PZ-14

Groundwater sample

Product Name: Low-Flow System

Date: 2020-10-07 14:42:21

Project Information:		Pump Information:	
Operator Name	Terrell Parker	Pump Model/Type	QED dedicated bladder
Company Name	Wood E&IS	Tubing Type	PE
Project Name	Plant Mitchell CCR	Tubing Diameter	.170 in
Site Name	PZ-15	Tubing Length	83 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	541714		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	78.2 ft

Well Information:		Pumping Information:	
Well ID	PZ-15	Final Pumping Rate	250 mL/min
Well diameter	2 in	Total System Volume	0.8504641 L
Well Total Depth	83.22 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	2.28 in
Depth to Water	30.69 ft	Total Volume Pumped	11.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	14:20:15	1200.04	23.68	7.11	535.86	1.34	30.88	0.25	91.92
Last 5	14:25:15	1500.04	23.75	7.11	533.03	1.54	30.88	0.21	96.66
Last 5	14:30:15	1800.04	23.54	7.11	533.00	1.70	30.88	0.19	100.12
Last 5	14:35:15	2100.04	23.64	7.11	531.91	1.55	30.88	0.18	103.13
Last 5	14:40:15	2400.03	23.62	7.11	531.30	1.51	30.88	0.17	103.62
Variance 0			-0.21	-0.00	-0.03			-0.02	3.46
Variance 1			0.10	-0.00	-1.09			-0.00	3.00
Variance 2			-0.01	-0.00	-0.61			-0.01	0.50

Notes

Started purging at 13:51

Collect GW sample at 14:45.

Grab Samples

PZ-15

Groundwater

Product Name: Low-Flow System

Date: 2020-10-06 17:21:43

Project Information:		Pump Information:	
Operator Name	Andreas Shoredits	Pump Model/Type	QED
Company Name	Wood E&IS	Tubing Type	HDPE
Project Name	Plant Mitchell	Tubing Diameter	0.17 in
Site Name	PZ-16	Tubing Length	58 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	642533		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	48.2 ft

Well Information:		Pumping Information:	
Well ID	PZ-16	Final Pumping Rate	240 mL/min
Well diameter	2.00 in	Total System Volume	0.7388785 L
Well Total Depth	53.19 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.4 in
Depth to Water	33.40 ft	Total Volume Pumped	5.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 100
Last 5	15:44:58	300.09	22.85	7.27	464.12	7.13	33.48	2.01	25.50
Last 5	15:49:58	600.03	22.45	7.25	464.32	3.94	33.49	1.65	23.85
Last 5	15:54:58	900.03	22.34	7.24	465.07	1.67	33.50	1.41	23.33
Last 5	15:59:58	1200.03	22.29	7.25	465.04	1.04	33.51	1.31	22.82
Last 5	16:04:58	1500.02	22.22	7.24	466.81	0.83	33.51	1.29	22.72
Variance 0			-0.10	-0.01	0.75			-0.23	-0.53
Variance 1			-0.06	0.00	-0.03			-0.10	-0.51
Variance 2			-0.07	-0.01	1.77			-0.02	-0.10

Notes

Start purging well @ 15:40, stop @ 16:05; Purge rate maintained between 200 and 240 ml/min; Collect sample @ 16:15; pH during sample collection is 7.24; Weather is overcast gusty 80 degrees F

Grab Samples

PZ-16

Groundwater sample

Product Name: Low-Flow System

Date: 2020-10-07 11:10:14

Project Information:		Pump Information:	
Operator Name	Andreas Shoredits	Pump Model/Type	QED
Company Name	Wood E&IS	Tubing Type	HDPE
Project Name	Plant Mitchell	Tubing Diameter	0.17 in
Site Name	PZ-17	Tubing Length	67 ft
Latitude	31º 26' 40.9"		
Longitude	-84º -7' -50.9"		
Sonde SN	642533		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	57.70 ft

Well Information:		Pumping Information:	
Well ID	PZ-17	Final Pumping Rate	290 mL/min
Well diameter	2.00 in	Total System Volume	0.7790493 L
Well Total Depth	62.70 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.1 in
Depth to Water	32.09 ft	Total Volume Pumped	8.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 100
Last 5	10:12:50	600.02	22.09	7.04	636.21	9.60	32.21	0.51	-29.26
Last 5	10:17:50	900.01	22.27	7.04	636.39	5.37	32.22	0.19	-20.99
Last 5	10:22:50	1200.00	22.28	7.04	636.87	3.16	32.22	0.13	-16.53
Last 5	10:27:50	1500.00	22.23	7.04	638.94	2.20	32.22	0.12	-13.98
Last 5	10:32:50	1799.99	22.09	7.04	641.16	2.08	32.22	0.12	-11.82
Variance 0			0.02	-0.00	0.48			-0.06	4.46
Variance 1			-0.06	0.00	2.07			-0.01	2.55
Variance 2			-0.13	0.00	2.21			0.00	2.16

Notes

Start purging well @ 10:03, stop @ 10:32; Initial urge rate of 250 ml/min increased to 285-290 ml/min @ 10:08; Water has sulfurous odor; Collect sample @ 10:35; pH during sample collection is 7.04; Weather is early fog clearing 72 degrees F

Grab Samples

PZ-17

Groundwater sample

Product Name: Low-Flow System

Date: 2020-10-07 12:41:33

Project Information:		Pump Information:	
Operator Name	Andreas Shoredits	Pump Model/Type	QED
Company Name	Wood E&IS	Tubing Type	HDPE
Project Name	Plant Mitchell	Tubing Diameter	0.17 in
Site Name	PZ-18	Tubing Length	73 ft
Latitude	31º 26' 40.9"		
Longitude	-84º -7' -50.9"		
Sonde SN	642533		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	58.18 ft

Well Information:		Pumping Information:	
Well ID	PZ-18	Final Pumping Rate	220 mL/min
Well diameter	2.00 in	Total System Volume	0.8058299 L
Well Total Depth	63.18 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.1 in
Depth to Water	29.30 ft	Total Volume Pumped	5.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 100
Last 5	11:42:03	300.04	24.43	6.99	693.27	2.80	29.37	1.47	-87.16
Last 5	11:47:03	600.03	23.44	6.92	698.82	2.78	29.38	0.31	-2.29
Last 5	11:52:03	900.02	23.26	6.92	699.59	2.01	29.39	0.36	7.27
Last 5	11:57:03	1200.02	23.29	6.92	700.02	1.44	29.39	0.31	10.72
Last 5	12:02:03	1500.02	23.26	6.91	699.65	1.33	29.39	0.22	12.46
Variance 0			-0.18	0.00	0.77			0.05	9.56
Variance 1			0.03	-0.00	0.43			-0.06	3.45
Variance 2			-0.03	-0.00	-0.37			-0.08	1.74

Notes

Start purging well @ 11:38, stop @ 12:02; Initial purge rate of 200 ml/min increased to 220-225 ml/min @ 11:43; Water has sulfurous odor; Collect sample @ 12:05; pH during sample collection is 6.91; Weather is sunny 76 degrees F

Grab Samples

PZ-18

Groundwater sample

Product Name: Low-Flow System

Date: 2020-10-07 15:56:31

Project Information:		Pump Information:	
Operator Name	Terrell Parker	Pump Model/Type	QED dedicated bladder
Company Name	Wood E&IS	Tubing Type	PE
Project Name	Plant Mitchell CCR	Tubing Diameter	.170 in
Site Name	PZ-19	Tubing Length	62.7 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	541714		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	57.63 ft

Well Information:		Pumping Information:	
Well ID	PZ-19	Final Pumping Rate	250 mL/min
Well diameter	2 in	Total System Volume	0.7598566 L
Well Total Depth	62.63 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	1.2 in
Depth to Water	31.51 ft	Total Volume Pumped	8.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:33:18	600.04	23.09	6.80	760.40	0.75	31.61	0.24	127.08
Last 5	15:38:18	900.04	22.94	6.80	761.73	0.61	31.61	0.17	129.33
Last 5	15:43:18	1200.03	22.83	6.79	765.51	0.35	31.61	0.16	130.38
Last 5	15:48:18	1500.04	22.77	6.78	772.12	0.27	31.61	0.16	131.11
Last 5	15:53:18	1800.04	22.82	6.78	773.82	0.24	31.61	0.15	131.61
Variance 0			-0.11	-0.01	3.78			-0.01	1.05
Variance 1			-0.06	-0.01	6.62			-0.00	0.73
Variance 2			0.05	-0.01	1.69			-0.01	0.50

Notes

Start purging at 15:23

Groundwater sample at 15:58.

Grab Samples

PZ-19

Groundwater

FD-01

Groundwater duplicate

Product Name: Low-Flow System

Date: 2020-10-06 15:02:20

Project Information:		Pump Information:	
Operator Name	Andreas Shoredits	Pump Model/Type	QED
Company Name	Wood E&IS	Tubing Type	HDPE
Project Name	Plant Mitchell	Tubing Diameter	0.17 in
Site Name	PZ-23A	Tubing Length	77 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	642533		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	62.3 ft

Well Information:		Pumping Information:	
Well ID	PZ-23A	Final Pumping Rate	185 mL/min
Well diameter	2.00 in	Total System Volume	0.8236836 L
Well Total Depth	67.3 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.7 in
Depth to Water	48.45 ft	Total Volume Pumped	13.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 100
Last 5	14:03:49	3299.99	22.38	6.78	785.83	5.00	48.93	2.07	25.04
Last 5	14:08:49	3599.98	22.27	6.78	783.89	4.61	48.93	2.10	25.19
Last 5	14:13:49	3899.98	22.29	6.78	784.11	4.52	48.93	2.09	24.93
Last 5	14:18:49	4199.97	22.31	6.78	783.59	5.00	48.92	2.17	25.03
Last 5	14:23:49	4499.97	22.27	6.78	782.26	3.99	48.90	2.14	25.18
Variance 0			0.02	-0.00	0.22			-0.01	-0.26
Variance 1			0.02	0.01	-0.52			0.08	0.09
Variance 2			-0.04	0.00	-1.33			-0.04	0.15

Notes

Start purging well @ 13:09, stop @ 14:23; Purge rate maintained @ 185 ml/min; Turbidity was slow to come down; Collect sample @ 14:25; pH during sampling is 6.78; Weather is overcast and gusty 74 degrees F

Grab Samples

PZ-23A

Groundwater sample

Product Name: Low-Flow System

Date: 2020-10-07 09:54:23

Project Information:		Pump Information:	
Operator Name	Terrell Parker	Pump Model/Type	QED dedicated bladder
Company Name	Wood E&IS	Tubing Type	PE
Project Name	Plant Mitchell CCR	Tubing Diameter	.170 in
Site Name	PZ-25	Tubing Length	63 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	541714		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	58.2 ft

Well Information:		Pumping Information:	
Well ID	PZ-25	Final Pumping Rate	225 mL/min
Well diameter	2 in	Total System Volume	0.7611957 L
Well Total Depth	63.19 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.72 in
Depth to Water	30.11 ft	Total Volume Pumped	9.9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:28:27	900.02	21.71	6.97	456.01	0.26	30.17	0.75	58.05
Last 5	09:33:27	1200.02	21.71	6.96	457.03	0.31	30.17	0.57	57.75
Last 5	09:38:27	1500.04	21.71	6.96	456.14	0.23	30.17	0.47	57.70
Last 5	09:43:27	1800.04	21.77	6.96	456.67	0.17	30.17	0.40	58.19
Last 5	09:48:27	2100.03	21.84	6.95	456.87	0.18	30.17	0.35	59.35
Variance 0			0.00	0.00	-0.89			-0.10	-0.06
Variance 1			0.06	0.01	0.53			-0.07	0.49
Variance 2			0.07	-0.01	0.20			-0.05	1.15

Notes

Started purging at 09:09.
Groundwater sample at 09:50 + FD-02

Grab Samples

PZ-25
Groundwater

FD-02
Groundwater dup

Product Name: Low-Flow System

Date: 2020-10-06 14:50:50

Project Information:		Pump Information:	
Operator Name	Ever Guillen	Pump Model/Type	QED
Company Name	WOOD	Tubing Type	HDPE
Project Name	Plant Mitchell CCR	Tubing Diameter	0.17 in
Site Name	PZ-31	Tubing Length	61.60 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	613229		
Turbidity Make/Model	HACH 2100Q	Pump placement from TOC	56.60 ft

Well Information:		Pumping Information:	
Well ID	PZ-31	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	0.7549468 L
Well Total Depth	61.60 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	37.33 ft	Total Volume Pumped	10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	14:29:06	1800.02	21.66	7.02	437.88	7.81	37.92	4.70	17.29
Last 5	14:34:06	2100.02	21.67	7.02	437.77	6.13	37.92	4.70	18.28
Last 5	14:39:09	2403.02	21.64	7.01	438.05	5.32	37.92	4.72	19.43
Last 5	14:44:09	2703.01	21.61	7.01	437.69	3.87	37.92	4.71	20.61
Last 5	14:49:09	3003.01	21.64	7.01	437.51	2.39	37.92	4.70	21.56
Variance 0			-0.03	-0.00	0.28			0.02	1.15
Variance 1			-0.03	-0.00	-0.36			-0.01	1.19
Variance 2			0.03	0.00	-0.18			-0.01	0.95

Notes

Sampled at 1455

Grab Samples

Product Name: Low-Flow System

Date: 2020-10-06 14:56:14

Project Information:		Pump Information:	
Operator Name	Terrell Parker	Pump Model/Type	QED dedicated bladder
Company Name	Wood E&IS	Tubing Type	PE
Project Name	Plant Mitchell CCR	Tubing Diameter	.170 in
Site Name	PZ-32	Tubing Length	65.3 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	541714		
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	60.3 ft

Well Information:		Pumping Information:	
Well ID	PZ-32	Final Pumping Rate	250 mL/min
Well diameter	2 in	Total System Volume	0.7714615 L
Well Total Depth	65.30 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	36.28 ft	Total Volume Pumped	14.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	14:32:49	1500.02	19.48	7.35	317.80	0.20	36.28	0.37	106.64
Last 5	14:37:49	1800.01	19.46	7.32	317.87	0.18	36.28	0.45	108.19
Last 5	14:42:49	2100.02	19.43	7.30	317.91	0.15	36.28	0.51	109.25
Last 5	14:47:49	2400.01	19.46	7.28	318.37	0.12	36.28	0.56	110.28
Last 5	14:52:50	2700.59	19.48	7.27	318.64	0.10	36.28	0.61	110.73
Variance 0			-0.03	-0.02	0.04			0.06	1.07
Variance 1			0.03	-0.02	0.45			0.05	1.02
Variance 2			0.02	-0.01	0.27			0.05	0.45

Notes

Begin purging 14:00

Groundwater sample at 15:00

Grab Samples

PZ-32

Groundwater

Product Name: Low-Flow System

Date: 2020-10-07 14:18:24

Project Information:		Pump Information:	
Operator Name	Ever Guillen WOOD	Pump Model/Type	QED
Company Name	Plant Mitchell CCR	Tubing Type	HDPE
Project Name	PZ-33	Tubing Diameter	0.17 in
Site Name	0° 0' 0"	Tubing Length	73.60 ft
Latitude	0° 0' 0"		
Longitude	642533		
Sonde SN	HACH 2100Q		
Turbidity Make/Model		Pump placement from TOC	68.60 ft

Well Information:	PZ-**33**	Pumping Information:	
Well ID	2 in	Final Pumping Rate	200 mL/min
Well diameter	73.60 ft	Total System Volume	0.8085079 L
Well Total Depth	10 ft	Calculated Sample Rate	300 sec
Screen Length	48.22 ft	Stabilization Drawdown	0 in
Depth to Water		Total Volume Pumped	13 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	13:56:40	2700.01	24.02	7.04	573.39	2.54	48.44	0.23	18.77
Last 5	14:01:40	3000.01	23.88	7.04	578.05	1.50	48.44	0.22	19.27
Last 5	14:06:40	3300.01	23.72	7.04	577.87	0.83	48.44	0.22	19.36
Last 5	14:11:40	3600.01	23.69	7.04	577.13	0.34	48.44	0.22	19.49
Last 5	14:16:40	3900.00	23.91	7.04	576.98	0.36	48.44	0.22	19.64
Variance 0			-0.16	0.00	-0.18			0.00	0.09
Variance 1			-0.03	0.00	-0.74			-0.01	0.13
Variance 2			0.21	-0.00	-0.15			0.00	0.15

Notes

Sampled at 1425

Grab Samples

Date: 10/06/2020
Time: 07:45
Prepared By: A. SHORSDITS
Checked By: NA

Wood.
Project No. 6122160170

SMARTROLL MP
~~Pine~~ Sonde ID: 642533
Pine Handset ID: —
Battery Voltage %: 100
Hach 2100Q S/N 16110C053543

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE	
Was DO membrane changed?	Yes ___ No X Date: ___ Time: ___		
Current Air Temperature °C (meter reading):		20.40	
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		30.09 in Hg x 25.4 = 764.29 mm Hg	
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	-5.18 = 759.11 mm Hg	
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		9.01	
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.95	99.6%
DO concentration after Calibration (mg/L):		8.96	100.1%
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	99.4	
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	—	

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 Exp. NA	1.413
Temperature (°C)		22.88
Reading before Calibration (mS/cm)		1.410
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		—

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH			
pH **7.0** value before calibration:	Lot # 19340057 Exp. 08/21	—	
pH **7.0** value after calibration:		7.00	
pH **7.0** mV **(range is -50 to +50 mV)**:		-5.4	
pH 10 value before calibration:	Lot # 19320102 Exp 08/21	—	
pH 10 value after calibration:		10.00	
pH 10 mV **(range is -130 to -230 mV)**:		-180.2	
pH **4.0** value before calibration:	Lot # 20010025 Exp. 08/21	4.03	22.0°C
pH **4.0** value after calibration:		4.00	
pH **4.0** mV **(range is 130 to 230 mV)**:		169.6	

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP) (Std 228 mV)		
Calibration Temperature (°C):	Lot # 19460167 Exp 08/21	21.82
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	
Reading before calibration (mV):		221.5
Reading after calibration (mV):		228

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 # NA	Exp. NA	Before Cal: 20.1	After Cal:	20.4
100 NTU Turbidity Standard	Lot # NA	Exp. NA	Before Cal: 105	After Cal:	105
800 NTU Turbidity Standard	Lot # NA	Exp. NA	Before Cal: 816	After Cal:	829
10 NTU Turbidity Check STD	Lot # A0226	Exp. 11/21	Before Cal: 10.2	After Cal:	10.3
<0.1 NTU Turbidity Check STD	Lot # A0037	Exp 02/22	Before Cal: —	After Cal:	0.21
CALIBRATION SUCCESSFUL?					YES

Date: 10/07/2020
Time: 07:55
Prepared By: A. SHOREDITS
Checked By: NA

Wood.
Project No. 6122160170

SMARTROLL MP
~~Pine Sonde~~ ID: 642533
~~Pine Hand~~set ID: NA
Battery Voltage %: 100
Hach 2100Q S/N 16110C053543

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE	
Was DO membrane changed?	Yes ___ No X Date: ___ Time: ___		
Current Air Temperature °C (meter reading):		22.68	
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		30.06 in Hg × 25.4 = 763.524 mmHg	
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	763.524 mmHg −5.18 = 758.344 mmHg	
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		8.61	
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.67	100.1%
DO concentration after Calibration (mg/L):		8.61	100.0%
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	100	
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	—	

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 Exp. NA	1.413
Temperature (°C)		23.57
Reading before Calibration (mS/cm)		1.401
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		—

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH			
pH **7.0** value before calibration:	Lot# 19340057 Exp. 08/21	—	23.8°C
pH **7.0** value after calibration:		7.00	
pH **7.0** mV **(range is -50 to +50 mV)**:		-5.2	
pH 10 value before calibration:	Lot# 19320102 Exp. 08/21	—	23.8°C
pH 10 value after calibration:		10.00	
pH 10 mV **(range is -130 to -230 mV)**:		-180.0	
pH **4.0** value before calibration:	Lot# 20010025 Exp. 08/21	4.02	23.61°C
pH **4.0** value after calibration:		4.00	
pH **4.0** mV **(range is 130 to 230 mV)**:		169.8	

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# 19460167 Exp. 08/21	23.52
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	—
Reading before calibration (mV):		225.8
Reading after calibration (mV):		228.0

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# NA Exp. NA	Before Cal: 19.9	After Cal:	20.0
100 NTU Turbidity Standard	Lot # NA Exp. NA	Before Cal: 98.3	After Cal:	98.6
800 NTU Turbidity Standard	Lot # NA Exp. NA	Before Cal: 788	After Cal:	807
10 NTU Turbidity Check STD	Lot# A0226 Exp. 11/21	Before Cal: 9.97	After Cal:	10.4
<0.1 NTU Turbidity Check STD	Lot# A0199 Exp. 07/22	Before Cal: —	After Cal:	0.44
CALIBRATION SUCCESSFUL?				YES

Calibration Report: Conductivity Calibration Report
2020-10-06 08:50:01
Probe: 642533
Cell Constant: 1.0086
Stability: Full

Calibration Report:	Conductivity Calibration Report 2020-10-07 08:50:04 Probe: 642533 Cell Constant: 1.0202 Stability: Full

Date: 10-6-20
Time: 830
Prepared By: EVER GUILLEN
Checked By:

Wood.
Project No. 6122160170

Pine Sonde ID: 613229
Pine Handset ID:
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):		22.55
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	760.1
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.	8.67
DO concentration after Calibration (mg/L):		7.85
% 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	-

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)		23.2
Reading before Calibration (mS/cm)		1.511
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		—

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH **7.0** value before calibration:		6.96
pH **7.0** value after calibration:		7.0
pH **7.0** mV **(range is -50 to +50 mV)**:		2.3
pH 10 value before calibration:		9.89
pH 10 value after calibration:		10.00
pH 10 mV **(range is -130 to -230 mV)**:		-171.6
pH **4.0** value before calibration:		4.03
pH **4.0** value after calibration:		4.00
pH **4.0** mV **(range is 130 to 230 mV)**:		176.8

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):		23.2
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	228.0
Reading before calibration (mV):		224.5
Reading after calibration (mV):		231.0

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:	9.93	After Cal:	9.97
20 NTU Turbidity Standard	Before Cal:	19.4	After Cal:	19.8
100 NTU Turbidity Standard	Before Cal:	97.2	After Cal:	99.0
800 NTU Turbidity Check STD	Before Cal:	763	After Cal:	788
0.1 NTU Turbidity Check STD	Before Cal:	0.18	After Cal:	0.18
CALIBRATION SUCCESSFUL?				YES

Date: 10-7-20
Time: 930
Prepared By: EVER GULLER
Checked By: ____

Wood.
Project No. 6122160170

Pine Sonde ID: 613229
Pine Handset ID: ____
Battery Voltage %: ____

NOTE: SMART TROLL DID NOT WORK – USED UNIT CALIBRATED BY A. SHOREDITS

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes____ No ✓ Date:____ Time:____	
Current Air Temperature °C (meter reading):		
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	
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.	
DO concentration after Calibration (mg/L):		
% 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	

Note:

CONDUCTIVITY [**Note:** Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)		
Temperature (°C)		
Reading before Calibration (mS/cm)		
Reading AFTER Calibration (mS/cm)		
Conductivity Cell Constant (unitless):		

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH **7.0** value before calibration:		
pH **7.0** value after calibration:		
pH **7.0** mV **(range is -50 to +50 mV)**:		
pH 10 value before calibration:		
pH 10 value after calibration:		
pH 10 mV **(range is -130 to -230 mV)**:		
pH **4.0** value before calibration:		
pH **4.0** value after calibration:		
pH **4.0** mV **(range is 130 to 230 mV)**:		

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):		
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	
Reading before calibration (mV):		
Reading after calibration (mV):		

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: 10.4	After Cal:	10.1
20 NTU Turbidity Standard	Before Cal: 19.0	After Cal:	19.6
100 NTU Turbidity Standard	Before Cal: 98.3	After Cal:	97.5
800 NTU Turbidity Check STD	Before Cal: 777	After Cal:	782
0.1 NTU Turbidity Check STD	Before Cal: 0.73	After Cal:	0.15
CALIBRATION SUCCESSFUL?			

Calibration Report:	ORP Calibration Report 2020-10-06 09:27:14 Probe: 642533 User Defined: 228.0 mV Offset: 0.1 mV Stability: Full

Calibration Report:	ORP Calibration Report 2020-10-07 09:25:32 Probe: 642533 User Defined: 228.0 mV Offset: 2.5 mV Stability: Full

Calibration Report:	pH Calibration Report 2020-10-06 09:19:34 Probe: 642533 4.00 to 7.00 pH Slope: -58.94 mV/pH Offset: 6.91 pH 7.00 to 10.00 pH Slope: -58.95 mV/pH Offset: 6.91 pH Stability: Full

Calibration Report:	pH Calibration Report 2020-10-07 09:17:03 Probe: 642533 4.00 to 7.00 pH Slope: -58.58 mV/pH Offset: 6.91 pH 7.00 to 10.00 pH Slope: -58.56 mV/pH Offset: 6.91 pH Stability: Full

Calibration Report:	RDO Calibration Report 2020-10-06 08:18:10 Probe: 642533 Slope: 0.9217 Offset: -0.0000 Stability: Full

Calibration Report:	RDO Calibration Report 2020-10-07 08:27:51 Probe: 642533 Slope: 0.9216 Offset: -0.0000 Stability: Full

Date: 10-6-20
Time: 08:03
Prepared By: T. PARKER
Checked By: ____

Wood.
Project No. 6122160170

Pine Sonde ID: 541714
Pine Handset ID: ____
Battery Voltage %: ____

INITIAL Calibration for Sampling event.

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes ____ No ✓ Date: ____ Time: ____ N/A	OPTICAL DO
Current Air Temperature °C (meter reading):		20.11
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):	92.4%	759.6 mm Hg
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	N/A
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		9.07
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.90
DO concentration after Calibration (mg/L):		9.05
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	99.8% ✓
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	~~TP~~ 10-6-20

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# 194K200 Exp. unk.	1.413
Temperature (°C)		22.7
Reading before Calibration (mS/cm)		N/A
Reading AFTER Calibration (mS/cm)		1.41 ✓
Conductivity Cell Constant (unitless):		N/A

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH **7.0** value before calibration:	LOT# 19340057 Exp. 08/2021	
pH **7.0** value after calibration:		
pH **7.0** mV **(range is -50 to +50 mV):**	22.0°C	-8.3
pH 10 value before calibration:	LOT# 19320102 Exp. 08/2021	
pH 10 value after calibration:		10.04 ✓
pH 10 mV **(range is -130 to -230 mV):**		-181.1
pH **4.0** value before calibration:	LOT# 20010025 Exp. 08/2021	4.03
pH **4.0** value after calibration:	22.4°C	
pH **4.0** mV **(range is 130 to 230 mV):**		167.8

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 #19460167 Exp. 08/2021	20.65
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	228
Reading before calibration (mV):	21.2°C	227.4
Reading after calibration (mV):		228.7

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.			
20 NTU Turbidity Standard LOT# A0231	Before Cal:	After Cal:	20.2
100 NTU Turbidity Standard LOT# A0218	Before Cal:	After Cal:	102
800 NTU Turbidity Standard LOT# A0264	Before Cal:	After Cal:	815
10 NTU Turbidity Check STD LOT# A	Before Cal:	After Cal:	9.78 ✓
~~0.17~~ NTU Turbidity Check STD LOT# A0037 (TP 10-6-20 20.2 NTU)	Before Cal:	After Cal:	0.17 ✓
CALIBRATION SUCCESSFUL?			

Date: 10-7-20
Time: 06:00
Prepared By: T. PARKER
Checked By:

Wood.
Project No. 6122160170

Pine Sonde ID: 541714
Pine Handset ID:
Battery Voltage %: -

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes ___ No ✓ Date: ___ Time: ___ N/A	optical DO
Current Air Temperature °C (meter reading):		21.48
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		757.0
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	N/A
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		8.80
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.84 @ 21.21°C 756.9 mmHg.
DO concentration after Calibration (mg/L):		8.79
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	99.9% R
DO Charge (DO ch):	Acceptable Range is 25 to 75	N/A
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	↓

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 Lot#19410200 No Exp.	1.413
Temperature (°C)	Date on	22.30
Reading before Calibration (mS/cm)	Bottle.	1.40
Reading AFTER Calibration (mS/cm)		1.41
Conductivity Cell Constant (unitless):		N/A

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH **7.0** value before calibration: (order cal.)	Lot # 19240057 Exp. 08/2021	Not Avail.
pH **7.0** value after calibration: (2)	22.9°C	Not Avail.
pH 7.0 mV **(range is -50 to +50 mV)**:		-7.6
pH 10 value before calibration:	Lot #19320102 Exp. 08/2021	
pH 10 value after calibration: (3)	22.9°C	10.00 ✓
pH 10 mV **(range is -130 to -230 mV)**:		-180.9
pH **4.0** value before calibration:	Lot #20010025 Exp. 08/2021	4.02
pH **4.0** value after calibration: (1)	22.8°C	
pH **4.0** mV **(range is 130 to 230 mV)**:	9	167.7

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 # 19460167 Exp. 08/2021	22.7
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	228
Reading before calibration (mV):		
Reading after calibration (mV):		228.3 ✓

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 # A0231 Exp. Nov. 2021	Before Cal:	After Cal:	19.7
100 NTU Turbidity Standard Lot # A0218 Exp. Nov. 2021	Before Cal:	After Cal:	98.8
800 NTU Turbidity Standard Lot # A0204 Exp. Oct. 2021	Before Cal:	After Cal:	798
10 NTU Turbidity Check STD Lot # A0226 Exp. Nov. 2021	Before Cal:	After Cal:	9.78
<0.1 NTU Turbidity Check STD Lot # A0199 Exp. Jul. 2022	Before Cal:	After Cal:	0.19 ✓
CALIBRATION SUCCESSFUL?			

Finish 06:34 SP All PASS.

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-01D
Date: 10/05/2020

		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

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name	Plant Mitchell
Permit Number	
Well ID	PZ-02D
Date	~~3/23/2020~~ 10/05/2020

		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

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-02S
Date: 10/05/2020

		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

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-03D
Date: 10/05/2020

			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	
Well ID	PZ-04D
Date	10/05/2020

		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

ANDREAS STEFAN SHOPAMIS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-06S
Date: 10/05/2020

		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

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-07D
Date: 10/05/2020

		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

GEORGIA REGISTERED PROFESSIONAL GEOLOGIST No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-08D
Date: 10/05/2020

			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

ANDREAS STEFAN SHOREDIS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-09D
Date: 10/05/2020

		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

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name	Plant Mitchell
Permit Number	
Well ID	PZ-10S
Date	10/05/2020

		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		X		
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 inside construction area (fenced off area)

Signature and Seal of PE/PG responsible for inspection

ANDREAS STEFAN SHORE[illegible]IS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-11S
Date: 10/05/2020

		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:

Could not access well for water level until 3/25/2020 due to site remediation work.

No well id and erosion underneath pad

Signature and Seal of PE/PG responsible for inspection

GEORGIA REGISTERED PROFESSIONAL GEOLOGIST No. 2310

Groundwater Monitoring Well Integrity Form

Site Name	Plant Mitchell
Permit Number	
Well ID	PZ-12S
Date	10/05/2020

			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

ANDREAS STEFAN SHORDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-14
Date: 10/05/2020

		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

ANDREAS STEFAN SHOREDITS
No. 2310
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-15
Date: 10/05/2020

		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

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-16
Date: 10/05/2020

			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

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-17
Date: 10/05/2020

		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:

No well cap present

Signature and Seal of PE/PG responsible for inspection

ANDREAS STEFAN SHOREDIS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name	Plant Mitchell
Permit Number	
Well ID	PZ-18
Date	10/05/2020

			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?	X		✓
	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

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-19
Date: 10/05/2020

		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

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-20
Date: 10/05/2020

		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

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-21
Date: 10/05/2020

		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:
Well ID: PZ-22
Date: 10/05/2020

		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

ANDREAS STEFAN SHOREDIS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-23A
Date: 10/05/2020

		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 currently difficult to access due to construction;
* Pad surface is covered with soil from excavation [illegible]

Signature and Seal of PE/PG responsible for inspection

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-24A
Date: 10/05/2020

		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?	yes		
7	Corrective actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-25
Date: 10/05/2020

			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

ANDREAS STEFAN SHOREDITS
No. 2310
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST

Groundwater Monitoring Well Integrity Form

Site Name	Plant Mitchell
Permit Number	
Well ID	PZ-26
Date	10/05/2020

			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

ANDREAS STEFAN SHOREDITS
No. 2310
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-27
Date: 10/05/2020

		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?	yes		
7	Corrective actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

ANDREAS STEFAN SHOREDITS
No. 2310
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-28
Date: 10/05/2020

		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

GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-29
Date: 10/05/2020

		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

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-31
Date: 10/05/2020

		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?	X		✓
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

ANDREAS STEFAN SHOREDITS
No. 2310
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-32
Date: 10/05/2020

			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

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: PZ-33
Date: 10/05/2020

		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

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name	Plant Mitchell
Permit Number	N/A
Well ID	MH-B-03A PZ-01R
Date	10/05/2020

		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

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MH-B-12 PZ-02R
Date: 10/05/2020

		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

ANDREAS STEFAN SHOREDIS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MH-B-16 PZ-03R
Date: 10/05/2020

		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:
Well ID: MW-102
Date: 10/05/2020

		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

ANDREAS STEFAN SHOREDIS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name	Plant Mitchell
Permit Number	
Well ID	MW-108
Date	10/05/2020

			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

ANDREAS STEFAN SHOPLAS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: MW-111
Date: 10/05/2020

		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

ANDREAS STEFAN SHOJAI
GEORGIA REGISTERED PROFESSIONAL
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell

Permit Number:

Well ID: MW-113

Date: 10/05/2020

1 Location/Identification

		yes	no	n/a
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

		yes	no	n/a
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

		yes	no	n/a
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

		yes	no	n/a
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:

		yes	no	n/a
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)?			✓

	yes	no	n/a
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:

The protective casing is rusting and deteriorting. May need replacing soon.

Signature and Seal of PE/PG responsible for inspection

ANDREAS STEFAN SHOREDITS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: MW-115
Date: 10/05/2020

		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

ANDREAS STEFAN SHOKRGOZAR
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2310

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number:
Well ID: MW-116
Date: 10/05/2020

		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

ANDREAS STEFAN SHOREDITS
No. 2310
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST

Low-Flow Test Report:

Test Date / Time: 3/3/2021 10:10:03 AM
Project: Plant Mitchell CCR PHASE 2
Operator Name: Ever Guillen

Location Name: PZ-1D	Pump Type: QED	Instrument Used: Aqua TROLL 400
Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 71.71 ft Total Depth: 81.71 ft Initial Depth to Water: 40.02 ft	Tubing Type: HDPE Pump Intake From TOC: 76.71 ft Estimated Total Volume Pumped: 12 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.19 ft	Serial Number: 728634

Test Notes:
Sampled at 1115

Weather Conditions:
Cold, cloudy, some 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	
3/3/2021 10:10 AM	00:00	6.38 pH	14.21 °C	326.36 µS/cm	8.52 mg/L	2.18 NTU	136.7 mV	40.92 ft	200.00 ml/min
3/3/2021 10:15 AM	05:00	6.93 pH	14.98 °C	273.70 µS/cm	2.09 mg/L	22.60 NTU	-17.2 mV	41.12 ft	200.00 ml/min
3/3/2021 10:20 AM	10:00	7.25 pH	17.62 °C	259.59 µS/cm	1.60 mg/L	19.40 NTU	13.8 mV	41.12 ft	200.00 ml/min
3/3/2021 10:25 AM	15:00	7.38 pH	17.70 °C	257.16 µS/cm	1.77 mg/L	16.20 NTU	25.0 mV	41.12 ft	200.00 ml/min
3/3/2021 10:30 AM	20:00	7.45 pH	17.26 °C	258.83 µS/cm	1.79 mg/L	12.80 NTU	30.5 mV	41.12 ft	200.00 ml/min
3/3/2021 10:35 AM	25:00	7.48 pH	17.26 °C	259.85 µS/cm	1.76 mg/L	9.60 NTU	32.5 mV	41.12 ft	200.00 ml/min
3/3/2021 10:40 AM	30:00	7.47 pH	17.09 °C	262.12 µS/cm	1.98 mg/L	6.70 NTU	36.2 mV	41.12 ft	200.00 ml/min
3/3/2021 10:45 AM	35:00	7.52 pH	17.38 °C	262.24 µS/cm	2.13 mg/L	1.66 NTU	38.4 mV	41.12 ft	200.00 ml/min
3/3/2021 10:50 AM	40:00	7.54 pH	17.40 °C	263.04 µS/cm	2.29 mg/L	2.09 NTU	37.8 mV	41.21 ft	200.00 ml/min
3/3/2021 10:55 AM	45:00	7.56 pH	17.32 °C	265.30 µS/cm	2.46 mg/L	2.20 NTU	37.8 mV	41.21 ft	200.00 ml/min
3/3/2021 11:00 AM	50:00	7.52 pH	17.22 °C	264.64 µS/cm	2.54 mg/L	1.91 NTU	44.0 mV	41.21 ft	200.00 ml/min
3/3/2021 11:05 AM	55:00	7.55 pH	17.52 °C	266.48 µS/cm	2.58 mg/L	1.48 NTU	41.4 mV	41.21 ft	200.00 ml/min
3/3/2021 11:10 AM	01:00:00	7.56 pH	17.75 °C	268.02 µS/cm	2.63 mg/L	1.07 NTU	41.5 mV	41.21 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 3/8/2021 2:57:11 PM
Project: Plant Mitchell CCR Phase II (7)
Operator Name: Daniel Howard

Location Name: PZ-2D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 70.97 ft** **Total Depth: 80.97 ft** **Initial Depth to Water: 20.77 ft**	**Pump Type: QED Sample Pro** **Tubing Type: HDPE** **Pump Intake From TOC: 75.97 ft** **Estimated Total Volume Pumped: 7550 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728623**

Test Notes:
PZ-2D sample time 1534

Weather Conditions:
Clear, Temp 65 F

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	
3/8/2021 2:57 PM	00:00	7.79 pH	19.82 °C	184.92 µS/cm	3.93 mg/L	2.85 NTU	93.1 mV	20.77 ft	200.00 ml/min
3/8/2021 3:02 PM	05:00	7.97 pH	18.75 °C	181.92 µS/cm	3.85 mg/L	3.88 NTU	81.2 mV	20.94 ft	200.00 ml/min
3/8/2021 3:07 PM	10:00	7.91 pH	18.58 °C	196.84 µS/cm	3.79 mg/L	1.58 NTU	78.3 mV	20.94 ft	200.00 ml/min
3/8/2021 3:12 PM	15:00	7.83 pH	18.52 °C	208.79 µS/cm	3.81 mg/L	1.55 NTU	77.9 mV	20.94 ft	200.00 ml/min
3/8/2021 3:17 PM	20:00	7.79 pH	18.52 °C	215.36 µS/cm	3.75 mg/L	1.78 NTU	92.5 mV	20.94 ft	200.00 ml/min
3/8/2021 3:22 PM	25:00	7.77 pH	18.48 °C	215.89 µS/cm	3.72 mg/L	1.47 NTU	78.0 mV	20.94 ft	200.00 ml/min
3/8/2021 3:27 PM	30:00	7.78 pH	18.57 °C	214.89 µS/cm	3.69 mg/L	1.53 NTU	75.4 mV	20.94 ft	200.00 ml/min
3/8/2021 3:32 PM	35:00	7.77 pH	18.52 °C	216.76 µS/cm	3.68 mg/L	1.91 NTU	75.5 mV	20.94 ft	200.00 ml/min
3/8/2021 3:34 PM	37:45	7.77 pH	18.52 °C	216.49 µS/cm	3.68 mg/L		81.5 mV	20.94 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 3/4/2021 12:44:15 PM
Project: Plant Mitchell CCR Phase II (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: 23.33 ft**	**Pump Type: QED micropurge Bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 55.37 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728623**

Test Notes:
PZ-7D sample time 1316

Weather Conditions:
Clear and sunny. Temp 65F

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	
3/4/2021 12:44 PM	00:00	7.11 pH	23.44 °C	580.63 µS/cm	1.30 mg/L	34.30 NTU	8.9 mV	23.33 ft	200.00 ml/min
3/4/2021 12:49 PM	05:00	6.98 pH	21.20 °C	578.07 µS/cm	0.70 mg/L	24.70 NTU	55.9 mV	23.35 ft	200.00 ml/min
3/4/2021 12:54 PM	10:00	6.96 pH	20.84 °C	582.24 µS/cm	0.59 mg/L	17.30 NTU	64.0 mV	23.35 ft	200.00 ml/min
3/4/2021 12:59 PM	15:00	6.96 pH	20.64 °C	585.07 µS/cm	0.53 mg/L	9.63 NTU	70.0 mV	23.35 ft	200.00 ml/min
3/4/2021 1:04 PM	20:00	6.95 pH	20.59 °C	585.54 µS/cm	0.52 mg/L	5.94 NTU	72.9 mV	23.31 ft	200.00 ml/min
3/4/2021 1:09 PM	25:00	6.95 pH	20.44 °C	586.37 µS/cm	0.52 mg/L	2.31 NTU	74.8 mV	23.31 ft	200.00 ml/min
3/4/2021 1:14 PM	30:00	6.95 pH	20.43 °C	587.33 µS/cm	0.51 mg/L	2.21 NTU	76.3 mV	23.31 ft	200.00 ml/min

Samples

Sample ID:	**Description:**

PZ-7D	PZ-7D sample time 1316.

Low-Flow Test Report:

Test Date / Time: 3/3/2021 12:46:36 PM
Project: Plant Mitchell CCR Phase 2
Operator Name: Andreas Shoredits

Location Name: PZ-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.75 ft** **Total Depth: 53.2 ft** **Initial Depth to Water: 36.38 ft**	**Pump Type: QED dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 48.2 ft** **Estimated Total Volume Pumped: 4050 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 170 ml/min** **Final Draw Down: 0.24 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728638**

Test Notes:
Start purging well @ 12:46, stop purging @ 13:11; pH @ sample collection time is 6.99

Weather Conditions:
Cloudy, 13 degrees C, Windy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
3/3/2021 12:46 PM	00:00	7.90 pH	14.80 °C	279.94 µS/cm	9.64 mg/L	6.73 NTU	95.4 mV	36.47 ft	120.00 ml/min
3/3/2021 12:51 PM	05:00	7.02 pH	18.96 °C	510.31 µS/cm	5.26 mg/L	4.01 NTU	79.6 mV	36.62 ft	180.00 ml/min
3/3/2021 12:56 PM	10:00	7.00 pH	19.34 °C	510.80 µS/cm	4.95 mg/L	2.75 NTU	110.1 mV	36.63 ft	170.00 ml/min
3/3/2021 1:01 PM	15:00	7.00 pH	19.41 °C	510.65 µS/cm	4.85 mg/L	1.39 NTU	108.7 mV	36.62 ft	170.00 ml/min
3/3/2021 1:06 PM	20:00	7.00 pH	19.49 °C	511.02 µS/cm	4.83 mg/L	1.02 NTU	72.9 mV	36.62 ft	170.00 ml/min
3/3/2021 1:11 PM	25:00	6.99 pH	19.63 °C	511.39 µS/cm	4.77 mg/L	0.97 NTU	72.0 mV	36.62 ft	170.00 ml/min

Samples

Sample ID:	Description:
PZ-14	Groundwater sample collected @ 13:20

Low-Flow Test Report:

Test Date / Time: 3/4/2021 10:14:48 AM
Project: Plant Mitchell CCR Phase II (5)
Operator Name: Daniel Howard

Location Name: PZ-15	Pump Type: QED micropurge Bladder	Instrument Used: Aqua TROLL 400
Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 73.22 ft Total Depth: 83.22 ft Initial Depth to Water: 21.59 ft	Tubing Type: HDPE Pump Intake From TOC: 78.22 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.03 ft	Serial Number: 728623

Test Notes:
PZ-15 sample time 1046

Weather Conditions:
Clear and Sunny. Temp 58 F

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	
3/4/2021 10:14 AM	00:00	7.23 pH	20.97 °C	535.41 µS/cm	0.62 mg/L	2.78 NTU	-111.3 mV	21.59 ft	200.00 ml/min
3/4/2021 10:19 AM	05:00	7.10 pH	20.65 °C	553.05 µS/cm	0.23 mg/L	8.50 NTU	-5.0 mV	21.65 ft	200.00 ml/min
3/4/2021 10:24 AM	10:00	7.10 pH	20.96 °C	551.44 µS/cm	0.19 mg/L	2.64 NTU	25.7 mV	21.65 ft	200.00 ml/min
3/4/2021 10:29 AM	15:00	7.10 pH	20.84 °C	551.19 µS/cm	0.17 mg/L	1.40 NTU	33.7 mV	21.63 ft	200.00 ml/min
3/4/2021 10:34 AM	20:00	7.10 pH	20.84 °C	551.42 µS/cm	0.16 mg/L	1.06 NTU	35.6 mV	21.62 ft	200.00 ml/min
3/4/2021 10:39 AM	25:00	7.09 pH	21.10 °C	552.91 µS/cm	0.15 mg/L	0.66 NTU	35.5 mV	21.62 ft	200.00 ml/min
3/4/2021 10:44 AM	30:00	7.09 pH	21.24 °C	551.91 µS/cm	0.15 mg/L	0.82 NTU	34.8 mV	21.62 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 3/4/2021 10:35:08 AM
Project: Plant Mitchell CCR PHASE 2 (4)
Operator Name: Ever Guillen

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: 25.68 ft**	**Pump Type: QED** **Tubing Type: HDPE** **Pump Intake From TOC: 76.71 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728634**

Test Notes:
Sampled at 1115

Weather Conditions:
Cold, clear, dry

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	
3/4/2021 10:35 AM	00:00	6.34 pH	18.46 °C	398.84 µS/cm	8.54 mg/L	1.15 NTU	124.4 mV	25.38 ft	200.00 ml/min
3/4/2021 10:40 AM	05:00	7.18 pH	19.85 °C	446.71 µS/cm	2.11 mg/L	8.76 NTU	72.8 mV	25.68 ft	200.00 ml/min
3/4/2021 10:45 AM	10:00	7.27 pH	20.16 °C	449.68 µS/cm	1.61 mg/L	7.18 NTU	80.6 mV	25.68 ft	200.00 ml/min
3/4/2021 10:50 AM	15:00	7.31 pH	20.20 °C	442.74 µS/cm	1.52 mg/L	6.31 NTU	62.6 mV	25.68 ft	200.00 ml/min
3/4/2021 10:55 AM	20:00	7.32 pH	20.20 °C	440.87 µS/cm	1.48 mg/L	4.62 NTU	61.0 mV	25.68 ft	200.00 ml/min
3/4/2021 11:00 AM	25:00	7.32 pH	20.39 °C	441.00 µS/cm	1.48 mg/L	3.91 NTU	59.4 mV	25.68 ft	200.00 ml/min
3/4/2021 11:05 AM	30:00	7.33 pH	20.38 °C	444.01 µS/cm	1.50 mg/L	3.06 NTU	57.3 mV	25.68 ft	200.00 ml/min
3/4/2021 11:10 AM	35:00	7.34 pH	20.50 °C	442.31 µS/cm	1.50 mg/L	1.78 NTU	56.8 mV	25.68 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 3/4/2021 9:26:18 AM
Project: Plant Mitchell CCR Phase 2
Operator Name: Andreas Shoredits

Location Name: PZ-17 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.25 ft** **Total Depth: 62.7 ft** **Initial Depth to Water: 22.69 ft**	**Pump Type: QED dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 57.7 ft** **Estimated Total Volume Pumped: 6850 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: 0.19 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728638**

Test Notes:
Start purging well @ 09:25, stop purging @ 09:51; pH @ sample collection is 7.09

Weather Conditions:
Sunny, 12 degrees C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
3/4/2021 9:26 AM	00:00	7.29 pH	15.02 °C	651.25 µS/cm	6.65 mg/L	2.06 NTU	-5.9 mV	22.86 ft	330.00 ml/min
3/4/2021 9:31 AM	05:00	7.12 pH	19.44 °C	534.12 µS/cm	0.57 mg/L	4.08 NTU	13.1 mV	22.90 ft	260.00 ml/min
3/4/2021 9:36 AM	10:00	7.10 pH	19.49 °C	540.64 µS/cm	0.19 mg/L	3.56 NTU	14.7 mV	22.88 ft	260.00 ml/min
3/4/2021 9:41 AM	15:00	7.09 pH	19.62 °C	547.63 µS/cm	0.16 mg/L	2.92 NTU	15.8 mV	22.87 ft	260.00 ml/min
3/4/2021 9:46 AM	20:00	7.09 pH	19.72 °C	553.47 µS/cm	0.15 mg/L	1.94 NTU	14.6 mV	22.88 ft	260.00 ml/min
3/4/2021 9:51 AM	25:00	7.09 pH	19.70 °C	556.36 µS/cm	0.15 mg/L	1.50 NTU	13.3 mV	22.88 ft	260.00 ml/min

Samples

Sample ID:	Description:
PZ-17	Groundwater sample collected @ 10:00

Low-Flow Test Report:

Test Date / Time: 3/4/2021 10:40:27 AM
Project: Plant Mitchell CCR Phase 2
Operator Name: Andreas Shoredits

Location Name: PZ-18 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.73 ft** **Total Depth: 63.18 ft** **Initial Depth to Water: 20.59 ft**	**Pump Type: QED dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 58.18 ft** **Estimated Total Volume Pumped: 5550 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728638**

Test Notes:
Start purging well @ 10:39, stop purging @ 11:00; pH @ sample collection is 6.91

Weather Conditions:
Sunny, 16 degrees C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
3/4/2021 10:40 AM	00:00	7.46 pH	18.92 °C	520.97 µS/cm	7.24 mg/L	2.75 NTU	40.4 mV	20.66 ft	330.00 ml/min
3/4/2021 10:45 AM	05:00	6.93 pH	20.79 °C	686.47 µS/cm	0.50 mg/L	2.98 NTU	11.9 mV	20.63 ft	260.00 ml/min
3/4/2021 10:50 AM	10:00	6.92 pH	20.93 °C	693.99 µS/cm	0.22 mg/L	2.46 NTU	21.3 mV	20.63 ft	260.00 ml/min
3/4/2021 10:55 AM	15:00	6.91 pH	20.99 °C	692.86 µS/cm	0.14 mg/L	2.10 NTU	23.5 mV	20.62 ft	260.00 ml/min
3/4/2021 11:00 AM	20:00	6.91 pH	21.06 °C	694.53 µS/cm	0.14 mg/L	1.28 NTU	25.8 mV	20.62 ft	260.00 ml/min

Samples

Sample ID:	Description:
PZ-18	Groundwater sample collected @ 11:05

Low-Flow Test Report:

Test Date / Time: 3/3/2021 3:22:50 PM
Project: Plant Mitchell CCR Phase II (4)
Operator Name: Daniel Howard

Location Name: PZ-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.63 ft** **Total Depth: 62.63 ft** **Initial Depth to Water: 23.93 ft**	**Pump Type: QED micropurge Bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 57.63 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728623**

Test Notes:
PZ-19 sample time

Weather Conditions:
Partly sunny. Temp 60 F

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	
3/3/2021 3:22 PM	00:00	6.90 pH	20.48 °C	815.60 µS/cm	1.48 mg/L	0.68 NTU	-92.5 mV	23.93 ft	200.00 ml/min
3/3/2021 3:27 PM	05:00	6.80 pH	20.16 °C	743.92 µS/cm	0.53 mg/L	0.81 NTU	-20.1 mV	23.93 ft	200.00 ml/min
3/3/2021 3:32 PM	10:00	6.80 pH	20.21 °C	747.42 µS/cm	0.43 mg/L	0.73 NTU	34.6 mV	23.94 ft	200.00 ml/min
3/3/2021 3:37 PM	15:00	6.79 pH	20.08 °C	743.92 µS/cm	0.34 mg/L	0.68 NTU	53.0 mV	23.94 ft	200.00 ml/min
3/3/2021 3:42 PM	20:00	6.79 pH	20.04 °C	752.51 µS/cm	0.28 mg/L	0.36 NTU	53.1 mV	23.94 ft	200.00 ml/min
3/3/2021 3:47 PM	25:00	6.79 pH	20.11 °C	746.78 µS/cm	0.27 mg/L	0.28 NTU	62.8 mV	23.94 ft	200.00 ml/min
3/3/2021 3:52 PM	30:00	6.78 pH	20.13 °C	756.27 µS/cm	0.23 mg/L	0.33 NTU	56.4 mV	23.94 ft	200.00 ml/min
3/3/2021 3:57 PM	35:00	6.78 pH	20.08 °C	759.61 µS/cm	0.20 mg/L	0.22 NTU	56.0 mV	23.94 ft	200.00 ml/min

Samples

Sample ID:	Description:
PZ-19	PZ-19 sample time 1600.

Low-Flow Test Report:

Test Date / Time: 3/3/2021 3:01:51 PM
Project: Plant Mitchell CCR Phase 2
Operator Name: Andreas Shoredits

Location Name: PZ-23A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 56.85 ft** **Total Depth: 67.3 ft** **Initial Depth to Water: 42.12 ft**	**Pump Type: QED dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 62.3 ft** **Estimated Total Volume Pumped: 9075 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 145 ml/min** **Final Draw Down: 0.35 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728638**

Test Notes:
Start purging well @ 14:56, stop purging @ 16:06; pH @ sample collection is 6.79

Weather Conditions:
Sunny, 16 degrees C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
3/3/2021 3:01 PM	00:00	7.36 pH	19.45 °C	619.46 µS/cm	5.21 mg/L	55.20 NTU	93.2 mV	42.25 ft	100.00 ml/min
3/3/2021 3:06 PM	05:00	6.85 pH	19.90 °C	772.35 µS/cm	2.58 mg/L	9.12 NTU	105.6 mV	42.31 ft	120.00 ml/min
3/3/2021 3:11 PM	10:00	6.80 pH	19.94 °C	772.92 µS/cm	2.17 mg/L	6.99 NTU	95.9 mV	42.41 ft	145.00 ml/min
3/3/2021 3:16 PM	15:00	6.79 pH	20.16 °C	765.90 µS/cm	2.24 mg/L	6.83 NTU	64.6 mV	42.47 ft	145.00 ml/min
3/3/2021 3:21 PM	20:00	6.79 pH	20.43 °C	767.54 µS/cm	2.32 mg/L	7.52 NTU	84.5 mV	42.47 ft	145.00 ml/min
3/3/2021 3:26 PM	25:00	6.79 pH	20.26 °C	760.20 µS/cm	2.38 mg/L	7.65 NTU	60.2 mV	42.47 ft	145.00 ml/min
3/3/2021 3:31 PM	30:00	6.79 pH	20.25 °C	764.19 µS/cm	2.43 mg/L	8.22 NTU	79.0 mV	42.47 ft	145.00 ml/min
3/3/2021 3:36 PM	35:00	6.79 pH	19.96 °C	761.24 µS/cm	2.45 mg/L	8.83 NTU	78.0 mV	42.47 ft	145.00 ml/min
3/3/2021 3:41 PM	40:00	6.79 pH	19.83 °C	760.75 µS/cm	2.44 mg/L	7.90 NTU	76.8 mV	42.47 ft	145.00 ml/min
3/3/2021 3:46 PM	45:00	6.79 pH	19.69 °C	759.04 µS/cm	2.45 mg/L	6.17 NTU	56.7 mV	42.47 ft	145.00 ml/min
3/3/2021 3:51 PM	50:00	6.79 pH	19.79 °C	756.96 µS/cm	2.47 mg/L	5.71 NTU	56.3 mV	42.47 ft	145.00 ml/min
3/3/2021 3:56 PM	55:00	6.79 pH	19.85 °C	758.05 µS/cm	2.49 mg/L	4.83 NTU	55.7 mV	42.47 ft	145.00 ml/min
3/3/2021 4:01 PM	01:00:00	6.79 pH	19.85 °C	756.04 µS/cm	2.49 mg/L	4.52 NTU	55.6 mV	42.47 ft	145.00 ml/min

3/3/2021 4:06 PM	01:05:00	6.79 pH	19.77 °C	756.19 µS/cm	2.54 mg/L	4.89 NTU	55.4 mV	42.47 ft	145.00 ml/min

Samples

Sample ID:	Description:
PZ-23A	Groundwater sample collected @ 16:15
DUP-2	Groundwater duplicate sample

Low-Flow Test Report:

Test Date / Time: 3/3/2021 1:09:51 PM
Project: Plant Mitchell CCR Phase II (3)
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: 22.01 ft**	**Pump Type: QED micropurge Bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 58.19 ft** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728623**

Test Notes:
PZ-25 sample time 1346.

Collected DUP-1 at this location.

Weather Conditions:
Overcast, 55 F

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	
3/3/2021 1:09 PM	00:00	7.08 pH	19.18 °C	459.45 µS/cm	1.44 mg/L	1.65 NTU	-57.2 mV	22.01 ft	200.00 ml/min
3/3/2021 1:14 PM	05:00	7.03 pH	19.32 °C	458.60 µS/cm	0.29 mg/L	1.14 NTU	-57.7 mV	22.03 ft	200.00 ml/min
3/3/2021 1:19 PM	10:00	7.03 pH	19.15 °C	457.75 µS/cm	0.19 mg/L	0.79 NTU	-57.6 mV	22.03 ft	200.00 ml/min
3/3/2021 1:24 PM	15:00	7.03 pH	19.17 °C	457.66 µS/cm	0.15 mg/L	0.80 NTU	-62.9 mV	22.03 ft	200.00 ml/min
3/3/2021 1:29 PM	20:00	7.03 pH	19.50 °C	459.58 µS/cm	0.15 mg/L	0.66 NTU	-88.7 mV	22.03 ft	200.00 ml/min
3/3/2021 1:34 PM	25:00	7.03 pH	19.68 °C	455.96 µS/cm	0.13 mg/L	0.54 NTU	-68.1 mV	22.03 ft	200.00 ml/min
3/3/2021 1:39 PM	30:00	7.04 pH	19.68 °C	456.18 µS/cm	0.13 mg/L	0.37 NTU	-69.8 mV	22.03 ft	200.00 ml/min
3/3/2021 1:44 PM	35:00	7.04 pH	19.71 °C	457.13 µS/cm	0.14 mg/L	0.36 NTU	-71.6 mV	22.03 ft	200.00 ml/min

Samples

Sample ID:	Description:

PZ-25	PZ-25 sample time 1346. Collected DUP-1 at this location.

Low-Flow Test Report:

Test Date / Time: 3/3/2021 12:50:03 PM
Project: Plant Mitchell CCR PHASE 2 (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** **Initial Depth to Water: 26.37 ft**	**Pump Type: QED** **Tubing Type: HDPE** **Pump Intake From TOC: 76.71 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.61 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728634**

Test Notes:
Sampled at 1340

Weather Conditions:
Cold, cloudy, some light 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	
3/3/2021 12:50 PM	00:00	7.22 pH	18.38 °C	460.78 µS/cm	5.03 mg/L	2.56 NTU	62.7 mV	26.98 ft	200.00 ml/min
3/3/2021 12:55 PM	05:00	7.17 pH	18.54 °C	459.63 µS/cm	5.01 mg/L	15.10 NTU	71.7 mV	26.98 ft	200.00 ml/min
3/3/2021 1:00 PM	10:00	7.18 pH	19.06 °C	459.07 µS/cm	5.07 mg/L	11.90 NTU	56.8 mV	26.98 ft	200.00 ml/min
3/3/2021 1:05 PM	15:00	7.17 pH	19.23 °C	461.23 µS/cm	5.00 mg/L	8.52 NTU	71.1 mV	26.98 ft	200.00 ml/min
3/3/2021 1:10 PM	20:00	7.18 pH	19.00 °C	452.85 µS/cm	4.93 mg/L	10.30 NTU	57.5 mV	26.98 ft	200.00 ml/min
3/3/2021 1:15 PM	25:00	7.17 pH	19.40 °C	460.13 µS/cm	5.01 mg/L	8.06 NTU	71.9 mV	26.98 ft	200.00 ml/min
3/3/2021 1:20 PM	30:00	7.16 pH	19.57 °C	456.95 µS/cm	4.96 mg/L	6.61 NTU	58.1 mV	26.98 ft	200.00 ml/min
3/3/2021 1:25 PM	35:00	7.15 pH	20.24 °C	459.25 µS/cm	4.94 mg/L	5.18 NTU	57.5 mV	26.98 ft	200.00 ml/min
3/3/2021 1:30 PM	40:00	7.17 pH	19.34 °C	458.79 µS/cm	5.16 mg/L	3.46 NTU	74.1 mV	26.98 ft	200.00 ml/min
3/3/2021 1:35 PM	45:00	7.14 pH	19.45 °C	456.28 µS/cm	5.02 mg/L	1.53 NTU	61.0 mV	26.98 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 3/3/2021 9:44:10 AM
Project: Plant Mitchell CCR Phase 2
Operator Name: Andreas Shoredits

Location Name: PZ-32 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 54.85 ft** **Total Depth: 65.3 ft** **Initial Depth to Water: 21.67 ft**	**Pump Type: QED dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 60.3 ft** **Estimated Total Volume Pumped: 6300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: -0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728638**

Test Notes:
Start purge @ 09:43, stop @ 10:09

Weather Conditions:
Cloudy, 9 degrees C, windy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
3/3/2021 9:44 AM	00:00	7.81 pH	11.30 °C	292.29 µS/cm	10.53 mg/L	1.59 NTU	110.4 mV	21.67 ft	260.00 ml/min
3/3/2021 9:49 AM	05:00	7.41 pH	16.64 °C	319.15 µS/cm	0.91 mg/L	1.95 NTU	68.6 mV	21.70 ft	250.00 ml/min
3/3/2021 9:54 AM	10:00	7.41 pH	17.31 °C	312.40 µS/cm	0.47 mg/L	1.48 NTU	86.4 mV	21.69 ft	250.00 ml/min
3/3/2021 9:59 AM	15:00	7.40 pH	17.44 °C	311.89 µS/cm	0.41 mg/L	1.52 NTU	60.0 mV	21.68 ft	250.00 ml/min
3/3/2021 10:04 AM	20:00	7.40 pH	17.49 °C	312.25 µS/cm	0.39 mg/L	0.96 NTU	55.8 mV	21.66 ft	250.00 ml/min
3/3/2021 10:09 AM	25:00	7.41 pH	17.45 °C	311.25 µS/cm	0.39 mg/L	0.73 NTU	72.5 mV	21.64 ft	250.00 ml/min

Samples

Sample ID:	Description:
PZ-32	Groundwater sample taken @ 10:15

Low-Flow Test Report:

Test Date / Time: 3/4/2021 1:27:44 PM
Project: Plant Mitchell CCR PHASE 2 (5)
Operator Name: Ever Guillen

Location Name: PZ-33	Pump Type: QED	Instrument Used: Aqua TROLL 400
Well Diameter: 2 in	Tubing Type: HDPE	Serial Number: 728634
Casing Type: PVC	Pump Intake From TOC: 68.6 ft	
Screen Length: 10 ft	Estimated Total Volume Pumped: 7 liter	
Top of Screen: 63.6 ft	Flow Cell Volume: 90 ml	
Total Depth: 73.6 ft	Final Flow Rate: 200 ml/min	
Initial Depth to Water: 40 ft	Final Draw Down: 0.81 ft	

Test Notes:
Sampled at 1405

Weather Conditions:
Cold, clear, dry

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	
3/4/2021 1:27 PM	00:00	7.59 pH	20.96 °C	473.16 µS/cm	7.21 mg/L	0.62 NTU	-80.0 mV	40.57 ft	200.00 ml/min
3/4/2021 1:32 PM	05:00	7.26 pH	20.92 °C	485.55 µS/cm	0.54 mg/L	7.37 NTU	-4.1 mV	40.81 ft	200.00 ml/min
3/4/2021 1:37 PM	10:00	7.24 pH	20.56 °C	509.94 µS/cm	0.18 mg/L	5.61 NTU	15.3 mV	40.81 ft	200.00 ml/min
3/4/2021 1:42 PM	15:00	7.23 pH	20.55 °C	505.93 µS/cm	0.14 mg/L	3.89 NTU	29.3 mV	40.81 ft	200.00 ml/min
3/4/2021 1:47 PM	20:00	7.21 pH	20.64 °C	510.75 µS/cm	0.14 mg/L	2.11 NTU	34.2 mV	40.81 ft	200.00 ml/min
3/4/2021 1:52 PM	25:00	7.20 pH	20.65 °C	509.14 µS/cm	0.15 mg/L	1.16 NTU	36.3 mV	40.81 ft	200.00 ml/min
3/4/2021 1:57 PM	30:00	7.22 pH	20.89 °C	509.96 µS/cm	0.15 mg/L	1.06 NTU	36.3 mV	40.81 ft	200.00 ml/min
3/4/2021 2:02 PM	35:00	7.22 pH	21.03 °C	510.21 µS/cm	0.15 mg/L	1.27 NTU	37.1 mV	40.81 ft	200.00 ml/min

Samples

Sample ID:	Description:

Date: 3-3-21
Time: 0600
Prepared By: EVER GUILLEN
Checked By: ______

Wood.
Project No. 6122160170

AIR ~~Pine~~ Sonde ID: 728634
AIR ~~Pine~~ Handset ID: 72
Battery Voltage %: 100

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes____ No X Date:____ Time:____	
Current Air Temperature °C (meter reading):		19.94
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	762.0
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.	–
DO concentration after Calibration (mg/L):		9.02
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery SLOPE = 1.090656	–
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	–

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)	20.7	~~25.0~~
Reading before Calibration (mS/cm)		1.507
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		0.972

1.036

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH **7.0** value before calibration:		6.92
pH **7.0** value after calibration:		7.0
pH **7.0** mV **(range is -50 to +50 mV)**:		-7.5
pH 10 value before calibration:		10.05
pH 10 value after calibration:		10.0
pH 10 mV **(range is -130 to -230 mV)**:		-184.4
pH **4.0** value before calibration:		4.21
pH **4.0** value after calibration:		4.0
pH 4.0 mV **(range is 130 to 230 mV)**:		151.6

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):		19.59
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	228
Reading before calibration (mV):		228.7
Reading after calibration (mV):		236.18

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: 9.75	After Cal:	10.1
20 NTU Turbidity Standard	Before Cal:	After Cal:	21.0
100 NTU Turbidity Standard	Before Cal:	After Cal:	109
800 NTU Turbidity Check STD	Before Cal:	After Cal:	759
____ NTU Turbidity Check STD	Before Cal:	After Cal:	
CALIBRATION SUCCESSFUL?			YES

Date: 3-4-21
Time: 800
Prepared By: EVER GUILLEN
Checked By: ____

Wood.
Project No. 6122160170

Pine Sonde ID: 728634
Pine Handset ID: 72
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):		8.80
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	764.54
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:	30.1	~~764.54~~
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	—
DO concentration after Calibration (mg/L):		11.61
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery SLOPE = 1.088637	—
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	—

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)	~~[illegible]~~	~~[illegible]~~ 11.37
Reading before Calibration (mS/cm)		1.407
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:		7.02
pH **7.0** value after calibration:		7.00
pH **7.0** mV **(range is -50 to +50 mV)**:		-7.3
pH 10 value before calibration:		10.13
pH 10 value after calibration:		10.0
pH 10 mV **(range is -130 to -230 mV)**:		-184.8
pH **4.0** value before calibration:		3.98
pH **4.0** value after calibration:		4.0
pH **4.0** mV **(range is 130 to 230 mV)**:		149.3

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):		13.33
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	228.0
Reading before calibration (mV):		246.9
Reading after calibration (mV):		244.16

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: 9.60	After Cal: 10.1
20 NTU Turbidity Standard	Before Cal:	After Cal: 20.2
100 NTU Turbidity Standard	Before Cal:	After Cal: 101.0
800 NTU Turbidity Check STD	Before Cal:	After Cal: 839
____ NTU Turbidity Check STD	Before Cal:	After Cal:
CALIBRATION SUCCESSFUL?		YES

AQUATROLL 400

Date: 03/03/2021
Time: 06:30
Prepared By: A. SHORESDITS
Checked By: —

Wood.
Project No. 6122160170

~~Pine Sonde~~ ID: 728638
Tablet ~~Pine Handset~~ ID: NA
Battery Voltage %: 100
Hach 2100Q S/N 16110C053543

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE	
Was DO membrane changed?	Yes____ No ✓ Date:____ Time:____		A.S. 3/3/21
Current Air Temperature °C (meter reading):		~~19.04~~	15.6°c
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		30.03	
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		
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.	9.04	99.1%
DO concentration after Calibration (mg/L):		9.08	98.8%
% 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		

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 Exp. —	1.413	
Temperature (°C)		~~20.39~~	25
Reading before Calibration (mS/cm)		1.481	
Reading AFTER Calibration (mS/cm)		1.461	A.S. 3/3/21
Conductivity Cell Constant (unitless):		—	

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH			(19.8°C)
pH **7.0** value before calibration:	Lot# 19340057 Exp. 08/21	7.026	A.S. 3/3/21
pH **7.0** value after calibration:		7.02	
pH **7.0** mV **(range is -50 to +50 mV)**:		-10.5	
pH 10 value before calibration:	Lot# 19320102 Exp. 08/21	10.04	(20°C)
pH 10 value after calibration:		10.04	
pH 10 mV **(range is -130 to -230 mV)**:		-179.9	
pH **4.0** value before calibration:	Lot# 20010025 Exp. 08/21	4.07	(19.9°C)
pH **4.0** value after calibration:		4.00	
pH **4.0** mV **(range is 130 to 230 mV)**:		163.3	

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP) (Std 228 mV)			
Calibration Temperature (°C):	Lot# 19460167 Exp. 08/21	19.87	A.S. 3/3/21
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	—	
Reading before calibration (mV):		229.1	
Reading after calibration (mV):		228.9	

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# —	Before Cal: 20.4	After Cal: 20.3
100 NTU Turbidity Standard	Lot# —	Before Cal: 101	After Cal: 103
800 NTU Turbidity Standard	Lot# —	Before Cal: 816	After Cal: 821
10 NTU Turbidity Check STD	Lot# A0226 Exp. 11/21	Before Cal: 10.9	After Cal: 10.7
0.1 NTU Turbidity Check STD	Lot# —	Before Cal: 0.73	After Cal: 0.53
CALIBRATION SUCCESSFUL?			YES

Date: 03/04/2021 Time: 06:20 Prepared By: A SHORODITS Checked By: —

Wood.
Project No. 6122160170

AQUATROLL 600
~~Pine Sonde~~ ID: 728638
Tablet ~~Pine Handset~~ ID: NA
Battery Voltage %: 100
Hach 2100Q S/N 16110C053543

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes ___ No ✓ Date: ___ Time: ___	
Current Air Temperature °C (meter reading):		14.5
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		30.11
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	
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.	9.887
DO concentration after Calibration (mg/L):		10.05
% 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	

AS 3/4/21
98.81
~~104.6~~%
100.09%

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 Exp. —	1.413
Temperature (°C)		25
Reading before Calibration (mS/cm)		1.407
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 # 19340057 Exp. 08/21	7.03
pH **7.0** value after calibration:		7.00
pH **7.0** mV **(range is -50 to +50 mV)**:		-10.7
pH 10 value before calibration:	Lot # 19320107 Exp. 08/21	10.09
pH 10 value after calibration:		10.00
pH 10 mV **(range is -130 to -230 mV)**:		-182.5
pH **4.0** value before calibration:	Lot # 20010025 Exp. 08/21	4.04
pH **4.0** value after calibration:		4.00
pH **4.0** mV **(range is 130 to 230 mV)**:		162.0

19.8°C

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP) (Std. 228 mV)		
Calibration Temperature (°C):	Lot # 19460167 Exp. 08/21	19.6
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	—
Reading before calibration (mV):		227.1
Reading after calibration (mV):		228.0

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 # —	Before Cal: 20.2	After Cal: 20.4
100 NTU Turbidity Standard	Lot # —	Before Cal: 98.5	After Cal: 100
800 NTU Turbidity Standard	Lot # —	Before Cal: 786	After Cal: 800
10 NTU Turbidity Check STD	Lot # A0226 Exp. 11/21	Before Cal: 10.8	After Cal: 10.9
0.1 NTU Turbidity Check STD	Lot # —	Before Cal: 0.65	After Cal: 0.61
CALIBRATION SUCCESSFUL?			YES

Date: 3/3/21
Time: 0530
Prepared By: Daniel Howard
Checked By:

Wood.
Project No. 6122160170

~~Pine~~ Sonde ID: ~~83~~ 728756
~~Pine~~ Handset ID: 724506
Battery Voltage %: 83

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE	
Was DO membrane changed?	Yes ___ No ✓ Date: ___ Time: ___		
Current Air Temperature °C (meter reading):		~~21.33~~	21.17
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):	1006.4 mbar		
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		
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.		
DO concentration after Calibration (mg/L):		~~8.76~~	8.82
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	~~99.50~~	100.03
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	~~1.012~~	1.104886

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)		21.29	
Reading before Calibration (mS/cm)		~~1.413~~	1.438
Reading AFTER Calibration (mS/cm)		1.413	
Conductivity Cell Constant (unitless):		0.995	

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		Time 1450	Midday Check
pH **7.0** value before calibration:	Lot 19340057 8/21	7.18	7.03
pH **7.0** value after calibration:	20.58°C	7.00	—
pH **7.0** mV **(range is -50 to +50 mV):**		-15.8	-16.0
pH 10 value before calibration:	Lot 19320102 8/21	10.12	
pH 10 value after calibration:	20.69°C	10.0	
pH 10 mV **(range is -130 to -230 mV):**		-186.1	
pH **4.0** value before calibration:	Lot 20010025 8/21	4.17	
pH **4.0** value after calibration:	20.88°C	4.00	
pH **4.0** mV **(range is 130 to 230 mV):**		158.1	

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 19460167 8/21	~~22.41~~	20.95
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	234.4	
Reading before calibration (mV):		223.9	
Reading after calibration (mV):		234.4	

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 A0136 8/21	Before Cal:	After Cal:	20.2
100 NTU Turbidity Standard A0139 8/21	Before Cal:	After Cal:	100
800 NTU Turbidity Standard A0139 8/21	Before Cal:	After Cal:	828
10 NTU Turbidity Check STD Lot A9326 2/21	Before Cal:	After Cal:	9.90
<0.1 NTU Turbidity Check STD A0322 11/22	Before Cal:	After Cal:	0.30
CALIBRATION SUCCESSFUL?			

Hach 2100 Q ID S/N 18110C071494

Date: 3/4/21	Wood.	Pine Sonde ID: 728756
Time: 0530	Project No. 6122160170	Pine Handset ID: 724506
Prepared By: Daniel Howard		Battery Voltage %: 99
Checked By:		

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes____ No ✓ Date:____ Time:____	
Current Air Temperature °C (meter reading):		21.65
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):	in bar 1008.8	
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	
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.	
DO concentration after Calibration (mg/L):		8.67
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	98.97
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	1.11599

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)		~~21.21~~	21.25
Reading before Calibration (mS/cm)		1.397	
Reading AFTER Calibration (mS/cm)		1.413	
Conductivity Cell Constant (unitless):		1.007	

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH			Mid day check 7/
pH **7.0** value before calibration:	Lot 19340057 8/21	7.03	7.04
pH **7.0** value after calibration:	20.97°C	7.0	
pH **7.0** mV **(range is -50 to +50 mV)**:		-16.3	-16.4
pH 10 value before calibration:	Lot 19320102 8/21	10.01	
pH 10 value after calibration:	21.29°C	10.06	
pH 10 mV **(range is -130 to -230 mV)**:		-184.5	
pH **4.0** value before calibration:	Lot 20010025 8/21	4.09	
pH **4.0** value after calibration:	21.33°C	4.00	
pH **4.0** mV **(range is 130 to 230 mV)**:		153.4	

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 19460167 8/21	21.60	
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	233.59	233.~~78~~ 79
Reading before calibration (mV):		233.3	
Reading after calibration (mV):		233.79	

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	A0136	8/21	Before Cal:	After Cal:	19.9
100 NTU Turbidity Standard	A01389	8/21	Before Cal:	After Cal:	99.1
800 NTU Turbidity Standard	A0139	8/21	Before Cal:	After Cal:	804
10 NTU Turbidity Check STD	A9326	2/21	Before Cal:	After Cal:	10.1
<0.1 NTU Turbidity Check STD	A0322	11/22	Before Cal:	After Cal:	0.51
CALIBRATION SUCCESSFUL?					

Hach 2100Q ID S/N 18110C071494

Date: 3/8/21
Time: 1305
Prepared By: Daniel Howard
Checked By:

Wood.
Project No. 6122160170

Pine Sonde ID: 728756
Pine Handset ID: 724506
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):		23.40	
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):	1027.6 mbar		
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		
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.	8.99	
DO concentration after Calibration (mg/L):		~~8.99~~	8.03
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	104.08	
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	1.074551	

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	~~22.07~~	DH
Temperature (°C)		22.07	~~22.07~~
Reading before Calibration (mS/cm)		1.4098	
Reading AFTER Calibration (mS/cm)		1.413	
Conductivity Cell Constant (unitless):		1.009	

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH			midday check
pH **7.0** value before calibration:	Lot 19340057 8/21	7.06	7.01
pH **7.0** value after calibration:	21.42	7.00	
pH **7.0** mV **(range is -50 to +50 mV)**:		-18.3	-16.8
pH 10 value before calibration:	Lot 19320102 8/21	10.12	
pH 10 value after calibration:	21.06	10.00	
pH 10 mV **(range is -130 to -230 mV)**:		-189.0	
pH **4.0** value before calibration:	Lot 20010025 8/21	DH 3.96	
pH **4.0** value after calibration:	22.36	4.00	
pH **4.0** mV **(range is 130 to 230 mV)**:		156.0	

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 19460167 8/21	22.86	
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	~~232.45~~	232.02
Reading before calibration (mV):		228.1	
Reading after calibration (mV):		232.02	

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 A0136 8/21	Before Cal:	After Cal:	19.9
100 NTU Turbidity Standard A0139 8/21	Before Cal:	After Cal:	99.3
800 NTU Turbidity Standard A0139 8/21	Before Cal:	After Cal:	793
10 ~~20.1~~ NTU Turbidity Check STD A9320 2/21	Before Cal:	After Cal:	9.96
<0.1 NTU Turbidity Check STD A0322 11/22	Before Cal:	After Cal:	0.70
CALIBRATION SUCCESSFUL?			

Hach 2100Q S/N 18110C071494

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-101
Date: 03/01/2021

		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-102
Date: 03/01/2021

		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-103
Date: 3/1/21

		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?			NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-1037
Date: 03/02/2021

		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-108
Date: 03/02/2021

		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-110

Date: 3-2-21

		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-111
Date: 3-2-21

		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-112
Date: 3-1-21

		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-113
Date	3-1-21

			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-114
Date: 3-1-21

		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-115
Date	3-1-21

			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-11b
Date: 03/01/2021

		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-117
Date: 03/01/2021

		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-118
Date: 3/1/21

		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?			NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name	Plant Mitchell
Permit Number	N/A
Well ID	MW-H9
Date	3/1/21

		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)? pad has crack down the middle	~~✓~~	✓	
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?			NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-120
Date: 3/1/21

		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?			NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-121
Date: 3/1/21

		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?			NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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-01A
Date	3/2/21

		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)?	DH ~~✓~~		NA
b	Is the well pad sloped away from the protective casing?	DH ~~✓~~		NA
c	Is the well pad in complete contact with the protective casing?	DH ~~✓~~		NA
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)	DH ~~✓~~		NA
e	Is the pad surface clean (not covered with sediment or debris)?	DH ~~✓~~		NA
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?			NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-01R
Date: 3/2/21

		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)?	~~X~~ DH		NA
b	Is the well pad sloped away from the protective casing?	~~✓~~ DH		NA
c	Is the well pad in complete contact with the protective casing?			NA
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)			NA
e	Is the pad surface clean (not covered with sediment or debris)?			NA
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?			NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-02A
Date: 3/2/21

		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)?			NA
b	Is the well pad sloped away from the protective casing?			NA
c	Is the well pad in complete contact with the protective casing?			NA
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)			NA
e	Is the pad surface clean (not covered with sediment or debris)?			NA
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?			NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name	Plant Mitchell
Permit Number	N/A
Well ID	PZ-02R
Date	3/2/21

		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)?			NA
b	Is the well pad sloped away from the protective casing?			NA
c	Is the well pad in complete contact with the protective casing?			NA
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)			NA
e	Is the pad surface clean (not covered with sediment or debris)?			NA
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?			NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name	Plant Mitchell
Permit Number	N/A
Well ID	PZ-1D
Date	3/1/21

			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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-15
Date: 3/1/21

		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?	~~✓~~ DH		NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	~~✓~~ DH		NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-2D
Date: 3/1/21

		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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-25
Date: 3/1/21

		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?			NA
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)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-3D
Date: 3/1/21

		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?			NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-35
Date: 3/1/21

		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?			NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-4P
Date: 03/02/2021

		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-4S
Date: 03/02/2021

		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-6S
Date: 03/02/2021

		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:
Stick-up cover lid closes with difficulty, adjust hinge.

Signature and Seal of PE/PG responsible for inspection

[signature]

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-7D
Date: 3-1-21

			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-7S
Date: 3-1-21

		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-8D
Date: 3-2-21

			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-8S
Date: 3-2-21

		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-9D
Date: 3-2-21

		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-9S
Date: 3-2-21

		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-1DS
Date: 3-2-21

		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-11S
Date: 3-1-21

			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-12S
Date: 03/01/2021

			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-13S
Date	3/2/21

		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) on one side of pad		✓	
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?	~~✓~~ DH		NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	~~✓~~ DH		NA
c	Does the well require redevelopment (low flow, turbid)?	~~✓~~ DH		NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-14
Date: 03/02/2021

		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-15
Date 3-1-21

		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-16
Date: 3-1-21

		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-17
Date: 3-1-21

			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-18
Date: 3-1-21

			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-19
Date	03/01/2021

			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-20
Date: 03/01/2021

		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-21
Date: 3/1/21

		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?			NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-22
Date: 3/1/21

		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?			NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-23A
Date: 03/02/2021

		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-24A
Date	03/02/2021

		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:

Annular space inside protective casing requires pea-size gravel.

Signature and Seal of PE/PG responsible for inspection

[signature]

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-25
Date: 03/01/2021

			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-26
Date: 3-2-21

		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

[signature]

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-27
Date: 03/01/2021

		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-28
Date: 03/01/2021

		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-29
Date: 3/2/21

		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?			NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name	Plant Mitchell
Permit Number	N/A
Well ID	PZ-31
Date	3/1/21

			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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-32
Date: 3/1/21

		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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-42
Date: 3/2/21

		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?			NA
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			NA
c	Does the well require redevelopment (low flow, turbid)?			NA
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 L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-33
Date: 3-2-21

		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

APPENDIX C

STATISTICAL ANALYSES

TABLE C1
STATISTICAL ANALYSIS SUMMARY
FOR APPENDIX III CONSTITUENTS
OCTOBER 2020 AND MARCH 2021 EVENTS
Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Appendix III Constituents	Monitoring Event	Wells with Concentrations Above Prediction Limits
Boron	October 2020	PZ-7D, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33
Calcium	October 2020	PZ-18, PZ-19, PZ-23A
Chloride	October 2020	PZ-15, PZ-16, PZ-17, PZ-18, PZ-23A
Fluoride	October 2020	None
pH	October 2020	PZ-18, PZ-19, PZ-23A, PZ-25
Sulfate	October 2020	PZ-7D, PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33
Total Dissolved Solids	October 2020	PZ-7D, PZ-15, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-33
Boron	March 2021	PZ-7D, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33
Calcium	March 2021	PZ-7D, PZ-14, PZ-17, PZ-18, PZ-19, PZ-23A
Chloride	March 2021	PZ-15, PZ-16, PZ-18, PZ-23A
Fluoride	March 2021	None
pH	March 2021	PZ-7D, PZ-18, PZ-19, PZ-23A
Sulfate	March 2021	PZ-7D, PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33
Total Dissolved Solids	March 2021	PZ-7D, PZ-17, PZ-18, PZ-19, PZ-23A

GROUNDWATER STATS
CONSULTING

February 23, 2021

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Mitchell Ash Pond
1st Semi-Annual 2020 Statistical Analysis - October Sample Event

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the October 2020 Semi-Annual Groundwater Monitoring and Corrective Action 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 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. Since the new well PZ-23A was installed in close proximity to well PZ-23A, the historical data and new data have been combined. Well PZ-23A was first sampled during the March 2020 event.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting.

The CCR program monitors the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. Summaries of well/constituent pairs with 100% nondetects since 2016 for Appendix IV constituents follow this letter. Additionally, when Appendix IV constituents are not detected during a scheduled Scan event, no statistical analyses are required during the semi-annual sample event. During the annual Scan event conducted in August 2020, arsenic, beryllium, and cadmium were not detected, and therefore, were not required to be sampled during the October 2020 event. Those three constituents were included on time series and box plots, but were not included in statistical analyses. For all constituents, a substitution of the most recent reporting limit is used for nondetect data. For calculating prediction limits, the substitution is performed for individual wells and may differ across wells. This generally gives the most conservative limit in each case. In the time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group.

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 boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals on downgradient well data compared against Ground Water 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 nondetects, 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 nondetects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the practical quantification limit (PQL) as reported by the laboratory.

- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% nondetects.

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.

Background Screening – Conducted in March 2019

<u>Outlier and Trend Testing</u>

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 nondetects.

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.

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.

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 – October 2020 Sample Event

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged as outlier and a summary of previously flagged outliers follows this report (Figure C).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through March 2020 (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 there are statistically significant increases (SSIs).

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, PZ-17, PZ-18, and PZ-23A

- pH: PZ-18, PZ-19, PZ-23A, and PZ-25
- 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, PZ-23A, PZ-33, and PZ-7D

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
- Sulfate: PZ-14 and PZ-23A
- TDS: PZ-23A

Decreasing:

- Boron: PZ-7D
- Chloride: PZ-31 (upgradient)
- Sulfate: PZ-25, PZ-31 (upgradient), and PZ-33

Statistical Analysis of Appendix IV Parameters – October 2020 Sample Event

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Ground Water Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% ND or trace values below the reporting limits 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).

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through October 2020 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% 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 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 October 2020 sample event for the state rules (Figure G). 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). 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 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,

Abdul Diane
Groundwater Analyst

Kristina L. Rayner
Groundwater Statistician

100% Non-Detects

Analysis Run 12/8/2020 1:54 PM View: Appendix IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Antimony (mg/L)
PZ-25, PZ-32

Arsenic (mg/L)
PZ-16, PZ-18, PZ-1D, PZ-31, PZ-7D

Beryllium (mg/L)
PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-31, PZ-32, PZ-33, PZ-7D

Cadmium (mg/L)
PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-1D, PZ-25, PZ-2D, PZ-31, PZ-32, PZ-7D

Chromium (mg/L)
PZ-15, PZ-17, PZ-25

Cobalt (mg/L)
PZ-1D, PZ-2D, PZ-7D

Lead (mg/L)
PZ-14, PZ-17, PZ-25, PZ-7D

Lithium (mg/L)
PZ-16, PZ-1D, PZ-31, PZ-32, PZ-33

Mercury (mg/L)
PZ-32

Molybdenum (mg/L)
PZ-18, PZ-32, PZ-33, PZ-7D

Selenium (mg/L)
PZ-16, PZ-17, PZ-18, PZ-1D, PZ-25, PZ-2D, PZ-31, PZ-32, PZ-33

Thallium (mg/L)
PZ-1D

Interwell Predicition Limit - Significant Results

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 12/8/2020, 1:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-15	0.02691	n/a	10/7/2020	0.19	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02691	n/a	10/6/2020	0.19	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02691	n/a	10/7/2020	0.3	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02691	n/a	10/7/2020	0.39	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02691	n/a	10/7/2020	0.52	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02691	n/a	10/6/2020	0.16	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02691	n/a	10/7/2020	0.18	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02691	n/a	10/7/2020	0.35	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02691	n/a	10/7/2020	0.2	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	119.9	n/a	10/7/2020	129	Yes	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	119.9	n/a	10/7/2020	144	Yes	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	119.9	n/a	10/6/2020	144	Yes	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	4.705	n/a	10/7/2020	6.6	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-16	4.705	n/a	10/6/2020	6.4	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-17	4.705	n/a	10/7/2020	5.7	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.705	n/a	10/7/2020	5	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-23A	4.705	n/a	10/6/2020	7	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
pH (SU)	PZ-18	9.48	6.96	10/7/2020	6.91	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	10/7/2020	6.78	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	10/6/2020	6.78	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-25	9.48	6.96	10/7/2020	6.95	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	7.172	n/a	10/6/2020	11	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	7.172	n/a	10/7/2020	80.7	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	7.172	n/a	10/6/2020	42.4	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	7.172	n/a	10/7/2020	89.1	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	7.172	n/a	10/7/2020	87.3	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	7.172	n/a	10/7/2020	83.3	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	7.172	n/a	10/6/2020	71.2	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	7.172	n/a	10/7/2020	38.1	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	7.172	n/a	10/7/2020	54.6	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	7.172	n/a	10/7/2020	48.9	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-15	314	n/a	10/7/2020	336	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	314	n/a	10/7/2020	392	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	314	n/a	10/7/2020	425	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	314	n/a	10/7/2020	492	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	314	n/a	10/6/2020	462	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-33	314	n/a	10/7/2020	337	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-7D	314	n/a	10/7/2020	334	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2

Interwell Predicition Limit - All Results

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 12/8/2020, 1:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-14	0.02691	n/a	10/6/2020	0.026J	No	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-15	0.02691	n/a	10/7/2020	0.19	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02691	n/a	10/6/2020	0.19	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02691	n/a	10/7/2020	0.3	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02691	n/a	10/7/2020	0.39	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02691	n/a	10/7/2020	0.52	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02691	n/a	10/6/2020	0.16	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02691	n/a	10/7/2020	0.18	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02691	n/a	10/7/2020	0.35	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02691	n/a	10/7/2020	0.2	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-14	119.9	n/a	10/6/2020	111	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-15	119.9	n/a	10/7/2020	93.5	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-16	119.9	n/a	10/6/2020	84	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-17	119.9	n/a	10/7/2020	112	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	119.9	n/a	10/7/2020	129	Yes	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	119.9	n/a	10/7/2020	144	Yes	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	119.9	n/a	10/6/2020	144	Yes	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-25	119.9	n/a	10/7/2020	84.2	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-33	119.9	n/a	10/7/2020	94.7	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-7D	119.9	n/a	10/7/2020	109	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-14	4.705	n/a	10/6/2020	4.4	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	4.705	n/a	10/7/2020	6.6	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-16	4.705	n/a	10/6/2020	6.4	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-17	4.705	n/a	10/7/2020	5.7	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.705	n/a	10/7/2020	5	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-19	4.705	n/a	10/7/2020	4.5	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-23A	4.705	n/a	10/6/2020	7	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-25	4.705	n/a	10/7/2020	1.8	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-33	4.705	n/a	10/7/2020	2	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-7D	4.705	n/a	10/7/2020	3.9	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	10/6/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	10/6/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	10/7/2020	0.064J	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	10/6/2020	0.052J	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	10/7/2020	0.13	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
pH (SU)	PZ-14	9.48	6.96	10/6/2020	7.01	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-15	9.48	6.96	10/7/2020	7.11	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-16	9.48	6.96	10/6/2020	7.24	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	10/7/2020	7.04	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	10/7/2020	6.91	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	10/7/2020	6.78	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	10/6/2020	6.78	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-25	9.48	6.96	10/7/2020	6.95	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	10/7/2020	7.04	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	10/7/2020	6.98	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	7.172	n/a	10/6/2020	11	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	7.172	n/a	10/7/2020	80.7	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	7.172	n/a	10/6/2020	42.4	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	7.172	n/a	10/7/2020	89.1	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	7.172	n/a	10/7/2020	87.3	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	7.172	n/a	10/7/2020	83.3	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	7.172	n/a	10/6/2020	71.2	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	7.172	n/a	10/7/2020	38.1	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	7.172	n/a	10/7/2020	54.6	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	7.172	n/a	10/7/2020	48.9	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-14	314	n/a	10/6/2020	241	No	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-15	314	n/a	10/7/2020	336	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-16	314	n/a	10/6/2020	261	No	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	314	n/a	10/7/2020	392	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	314	n/a	10/7/2020	425	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	314	n/a	10/7/2020	492	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	314	n/a	10/6/2020	462	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-25	314	n/a	10/7/2020	280	No	48	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 12/8/2020, 1:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**PZ-7D**	**-0.04195**	**-41**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**5.393**	**40**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-31 (bg)**	**-0.4113**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-14**	**1.958**	**47**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-23A**	**5.866**	**58**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-3.585**	**-42**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-31 (bg)**	**-1.363**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-33**	**-10.95**	**-54**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**PZ-23A**	**15.05**	**44**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Test - All Results

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 12/8/2020, 1:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-15	-0.002874	-10	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0.001543	9	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-17	0.004918	15	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-18	0.003211	10	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.01512	-10	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.0000869	1	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-23A	0	1	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.002074	-10	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-2D (bg)	0	-3	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-31 (bg)	-0.001685	-23	-38	No	12	8.333	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	-0.0005995	-7	-38	No	12	8.333	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-33	-0.006909	-28	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-7D**	**-0.04195**	**-41**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**5.393**	**40**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-19	1.884	14	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-1D (bg)	1.69	27	34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-23A	5.176	29	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	4.25	20	38	No	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-31 (bg)	2.303	33	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-32 (bg)	1.918	24	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.09612	-7	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-16	-0.2544	-32	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-17	-0.09058	-7	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-18	-0.1529	-32	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-1D (bg)	-0.05102	-12	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-23A	0	-2	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	0	-6	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-31 (bg)**	**-0.4113**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-32 (bg)	-0.2351	-31	-38	No	12	0	n/a	n/a	0.01	NP
pH (SU)	PZ-18	-0.01121	-14	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.009125	10	48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	PZ-1D (bg)	-0.0333	-22	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.014	12	43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-25	-0.01978	-17	-38	No	12	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.2188	-8	-21	No	8	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	-0.001297	-4	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	-0.006728	-8	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-14**	**1.958**	**47**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-15	2.592	34	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-16	-2.14	-32	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-17	-0.8819	-7	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-18	-0.07746	-3	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-19	-0.9091	-21	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-1D (bg)	0.1329	22	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-23A**	**5.866**	**58**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-3.585**	**-42**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-2D (bg)	-0.8052	-26	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-31 (bg)**	**-1.363**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-32 (bg)	0.03898	11	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-33**	**-10.95**	**-54**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-7D	-1.28	-13	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-15	17.51	34	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-17	-7.105	-14	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-18	-1.308	-3	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-19	-11.97	-22	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-1D (bg)	6.855	27	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	**PZ-23A**	**15.05**	**44**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	PZ-2D (bg)	16.45	20	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-31 (bg)	-0.1691	-1	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-32 (bg)	2.604	13	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-33	-18.86	-12	-34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-7D	-11.45	-20	-38	No	12	0	n/a	n/a	0.01	NP

Upper Tolerance Limit

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 12/8/2020, 3:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0035	n/a	n/a	n/a	n/a	48	54.17	n/a	0.08526	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	44	86.36	n/a	0.1047	NP Inter(NDs)
Barium (mg/L)	n/a	0.05872	n/a	n/a	n/a	n/a	48	2.083	ln(x)	0.05	Inter
Beryllium (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	36	94.44	n/a	0.1578	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	36	100	n/a	0.1578	NP Inter(NDs)
Chromium (mg/L)	n/a	0.011	n/a	n/a	n/a	n/a	48	25	n/a	0.08526	NP Inter(normality)
Cobalt (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	48	95.83	n/a	0.08526	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.783	n/a	n/a	n/a	n/a	46	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.29	n/a	n/a	n/a	n/a	52	42.31	n/a	0.06944	NP Inter(normality)
Lead (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	48	77.08	n/a	0.08526	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	48	81.25	n/a	0.08526	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	40	90	n/a	0.1285	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	48	79.17	n/a	0.08526	NP Inter(NDs)
Selenium (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	48	100	n/a	0.08526	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	48	87.5	n/a	0.08526	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	0.059	2
Beryllium, Total (mg/L)	0.004	0.003	0.004
Cadmium, Total (mg/L)	0.005	0.0025	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	1.8	5
Fluoride, Total (mg/L)	4	0.29	4
Lead, Total (mg/L)	n/a	0.005	0.005
Lithium, Total (mg/L)	n/a	0.03	0.03
Mercury, Total (mg/L)	0.002	0.0005	0.002
Molybdenum, Total (mg/L)	n/a	0.01	0.01
Selenium, Total (mg/L)	0.05	0.01	0.05
Thallium, Total (mg/L)	0.002	0.001	0.002

**MCL = Maximum Contaminant Level*

Confidence Intervals Summary - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 4:07 PM

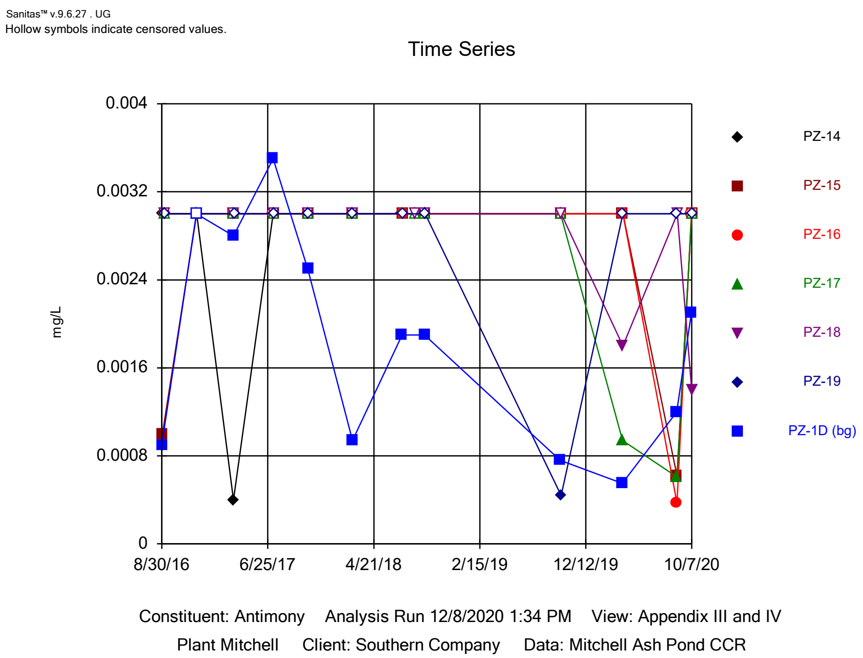
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-14	0.003	0.0004	0.006	No	12	0.002783	0.0007506	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-15	0.003	0.001	0.006	No	12	0.002635	0.0008563	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-16	0.003	0.00037	0.006	No	12	0.002781	0.0007592	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-17	0.003	0.00094	0.006	No	12	0.002629	0.0008689	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-18	0.003	0.0018	0.006	No	12	0.002767	0.0005516	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-19	0.003	0.00044	0.006	No	12	0.002787	0.000739	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-23A	0.003	0.00038	0.006	No	12	0.002782	0.0007563	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-33	0.003	0.00037	0.006	No	12	0.002781	0.0007592	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-7D	0.003	0.00031	0.006	No	12	0.002335	0.001203	75	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-14	0.03714	0.01838	2	No	12	0.02816	0.01364	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-15	0.07246	0.04991	2	No	12	0.06183	0.0165	0	None	ln(x)	0.01	Param.
Barium (mg/L)	PZ-16	0.0689	0.034	2	No	12	0.04591	0.01408	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-17	0.08083	0.07355	2	No	12	0.07719	0.004635	0	None	No	0.01	Param.
Barium (mg/L)	PZ-18	0.0513	0.023	2	No	12	0.03133	0.01488	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-19	0.06019	0.0528	2	No	12	0.05649	0.004707	0	None	No	0.01	Param.
Barium (mg/L)	PZ-23A	0.05486	0.03699	2	No	12	0.04593	0.01139	0	None	No	0.01	Param.
Barium (mg/L)	PZ-25	0.11	0.0997	2	No	12	0.1034	0.005199	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-33	0.07679	0.05702	2	No	11	0.06691	0.01186	0	None	No	0.01	Param.
Barium (mg/L)	PZ-7D	0.01075	0.007288	2	No	12	0.009017	0.002203	0	None	No	0.01	Param.
Chromium (mg/L)	PZ-14	0.01	0.0011	0.1	No	12	0.007782	0.004014	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-16	0.01	0.0008	0.1	No	12	0.006209	0.004689	58.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-18	0.01	0.00056	0.1	No	12	0.009213	0.002725	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-19	0.01	0.00073	0.1	No	12	0.009227	0.002676	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-23A	0.01	0.0012	0.1	No	12	0.003933	0.003761	25	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-33	0.01	0.0017	0.1	No	12	0.009308	0.002396	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-7D	0.01	0.0005	0.1	No	12	0.004875	0.004575	41.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-14	0.005	0.002	0.005	No	12	0.004358	0.001542	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-15	0.005	0.0004	0.005	No	12	0.003167	0.002275	58.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-16	0.005	0.0005	0.005	No	12	0.004625	0.001299	91.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-17	0.005	0.0005	0.005	No	12	0.002802	0.002303	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-18	0.005	0.0011	0.005	No	12	0.004675	0.001126	91.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-19	0.005	0.0012	0.005	No	12	0.004342	0.001539	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-23A	0.005	0.00058	0.005	No	12	0.003529	0.002175	66.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-25	0.0018	0.0008	0.005	No	12	0.001496	0.001162	8.333	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-33	0.005	0.00053	0.005	No	12	0.003152	0.002146	50	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	PZ-14	1.152	0.3085	5	No	12	0.7628	0.6096	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-15	1.172	0.6466	5	No	12	0.9188	0.3714	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-16	0.9753	0.4541	5	No	12	0.7147	0.3321	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-17	1.35	0.6643	5	No	11	1.007	0.4112	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-18	1.432	0.4765	5	No	10	0.9541	0.5353	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-19	1.473	0.7657	5	No	12	1.119	0.4508	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-23A	1.326	0.766	5	No	12	1.046	0.3565	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-25	1.287	0.841	5	No	12	1.064	0.2843	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-33	1.106	0.5856	5	No	12	0.846	0.3319	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-7D	0.6563	0.1595	5	No	12	0.4285	0.3741	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-14	0.11	0.05	4	No	13	0.08892	0.02636	53.85	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-15	0.1387	0.07074	4	No	13	0.1118	0.05007	23.08	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-16	0.1	0.05	4	No	13	0.08177	0.02548	53.85	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-17	0.1562	0.05733	4	No	13	0.1289	0.06857	30.77	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-18	0.1194	0.05633	4	No	13	0.103	0.03767	46.15	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-19	0.1462	0.06916	4	No	13	0.1216	0.08232	15.38	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-23A	0.101	0.04841	4	No	13	0.1009	0.06622	30.77	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-25	0.2679	0.1614	4	No	13	0.2146	0.0716	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-33	0.18	0.06	4	No	13	0.1076	0.04758	53.85	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-7D	0.15	0.041	4	No	13	0.08815	0.03377	61.54	None	No	0.01	NP (NDs)

Confidence Intervals Summary - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 4:07 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	PZ-15	0.005	0.00005	0.005	No	12	0.004587	0.001429	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-16	0.005	0.000081	0.005	No	12	0.00459	0.00142	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-18	0.005	0.00043	0.005	No	12	0.004206	0.001856	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-19	0.005	0.000042	0.005	No	12	0.004587	0.001431	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-23A	0.005	0.00015	0.005	No	12	0.004183	0.001908	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-33	0.005	0.00009	0.005	No	12	0.004178	0.00192	83.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14	0.03	0.003	0.03	No	12	0.02775	0.007794	91.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-15	0.03	0.0012	0.03	No	12	0.01324	0.01479	41.67	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-17	0.03	0.002	0.03	No	12	0.00705	0.01073	16.67	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-18	0.03	0.0024	0.03	No	12	0.007217	0.01064	16.67	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-19	0.01467	0.009498	0.03	No	12	0.01208	0.003295	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-23A	0.03	0.0011	0.03	No	12	0.02276	0.01309	75	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-25	0.006773	0.005229	0.03	No	12	0.005958	0.001097	0	None	x^2	0.01	Param.
Lithium (mg/L)	PZ-7D	0.0038	0.0022	0.03	No	12	0.005083	0.007865	8.333	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-14	0.0005	0.00015	0.002	No	10	0.000422	0.0001655	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-15	0.0005	0.0005	0.002	No	10	0.0004597	0.0001274	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-16	0.0005	0.0005	0.002	No	10	0.0004568	0.0001366	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-17	0.0005	0.0005	0.002	No	10	0.0004586	0.0001309	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-18	0.0005	0.0005	0.002	No	10	0.0004557	0.0001401	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-19	0.0005	0.0001	0.002	No	10	0.0004145	0.0001807	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-23A	0.0005	0.00017	0.002	No	10	0.000426	0.0001571	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-25	0.0005	0.0005	0.002	No	10	0.0004553	0.0001414	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-33	0.0005	0.000043	0.002	No	10	0.0003694	0.0002111	70	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-7D	0.0005	0.00006	0.002	No	10	0.0004113	0.000187	80	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	PZ-14	0.01	0.0005	0.01	No	12	0.009208	0.002742	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-15	0.01	0.0004	0.01	No	12	0.0092	0.002771	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-16	0.01	0.0004	0.01	No	12	0.0092	0.002771	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-17	0.01	0.0004	0.01	No	12	0.0092	0.002771	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-19	0.0027	0.002	0.01	No	12	0.002883	0.002252	8.333	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-23A	0.01	0.0011	0.01	No	12	0.008475	0.003563	83.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-25	0.01	0.001	0.01	No	12	0.00925	0.002598	91.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-14	0.01	0.0015	0.05	No	12	0.008558	0.003368	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-15	0.01	0.0018	0.05	No	12	0.009317	0.002367	91.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-19	0.01	0.0016	0.05	No	12	0.006925	0.003847	58.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-23A	0.01	0.0018	0.05	No	12	0.006792	0.003986	58.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-7D	0.01	0.0018	0.05	No	12	0.008625	0.003211	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-14	0.001	0.00006	0.002	No	12	0.0009217	0.0002714	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-15	0.001	0.00016	0.002	No	12	0.0007325	0.0003963	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-16	0.001	0.00017	0.002	No	12	0.0005836	0.0004366	50	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-17	0.001	0.0002	0.002	No	12	0.0007358	0.0003907	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-18	0.001	0.00005	0.002	No	12	0.0007634	0.000428	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-19	0.0007625	0.0004325	0.002	No	12	0.0005975	0.0002103	8.333	None	No	0.01	Param.
Thallium (mg/L)	PZ-23A	0.001	0.00015	0.002	No	12	0.0004625	0.0004001	33.33	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-25	0.001	0.00027	0.002	No	12	0.0007708	0.0003403	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-33	0.001	0.0001	0.002	No	12	0.0006358	0.0004506	58.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-7D	0.001	0.000085	0.002	No	12	0.0006303	0.0004579	58.33	None	No	0.01	NP (NDs)

FIGURE A.


Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.
Time Series
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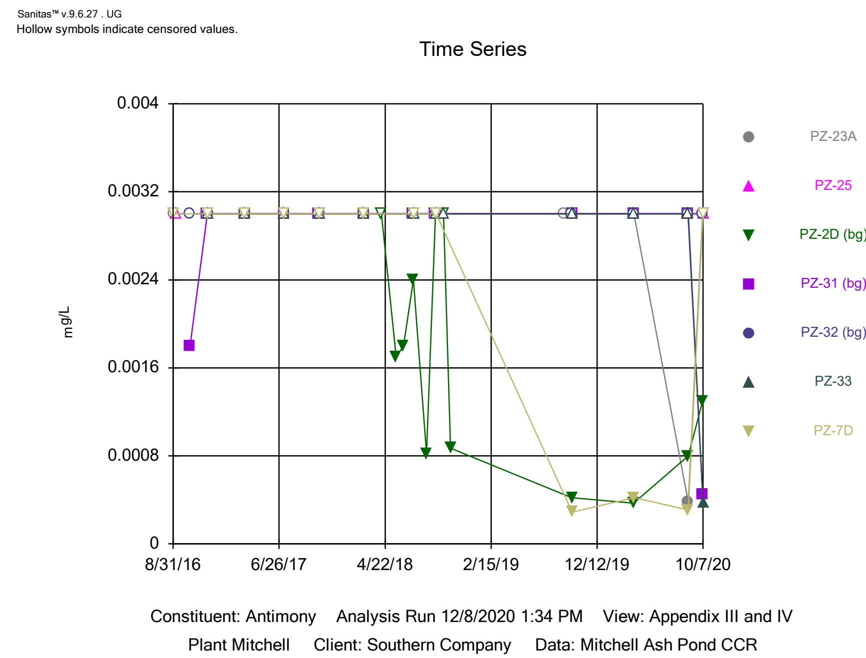
0.0024
0.0016
0.0008
0
mg/L
8/30/16
6/25/17
4/21/18
2/15/19
12/12/19
10/7/20
PZ-14
PZ-15
PZ-16
PZ-17
PZ-18
PZ-19
PZ-1D (bg)
Constituent: Antimony Analysis Run 12/8/2020 1:34 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.
Time Series
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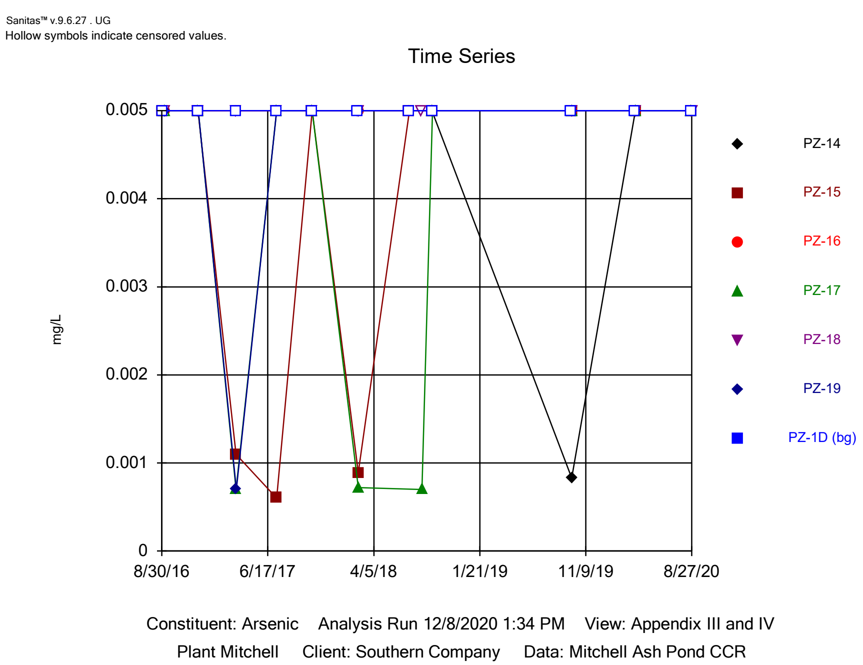
0.0032
0.0024
0.0016
0.0008
0
mg/L
8/31/16
6/26/17
4/22/18
2/15/19
12/12/19
10/7/20
PZ-23A
PZ-25
PZ-2D (bg)
PZ-31 (bg)
PZ-32 (bg)
PZ-33
PZ-7D
Constituent: Antimony Analysis Run 12/8/2020 1:34 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.27 . UG
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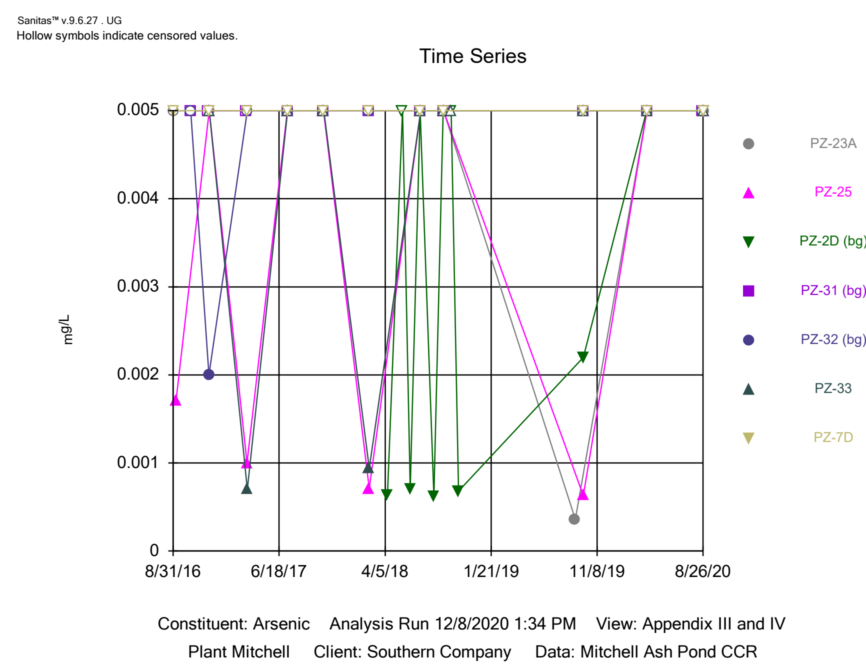
0.004
0.003
0.002
0.001
0
mg/L
8/30/16
6/17/17
4/5/18
1/21/19
11/9/19
8/27/20
PZ-14
PZ-15
PZ-16
PZ-17
PZ-18
PZ-19
PZ-1D (bg)
Constituent: Arsenic Analysis Run 12/8/2020 1:34 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.
Time Series
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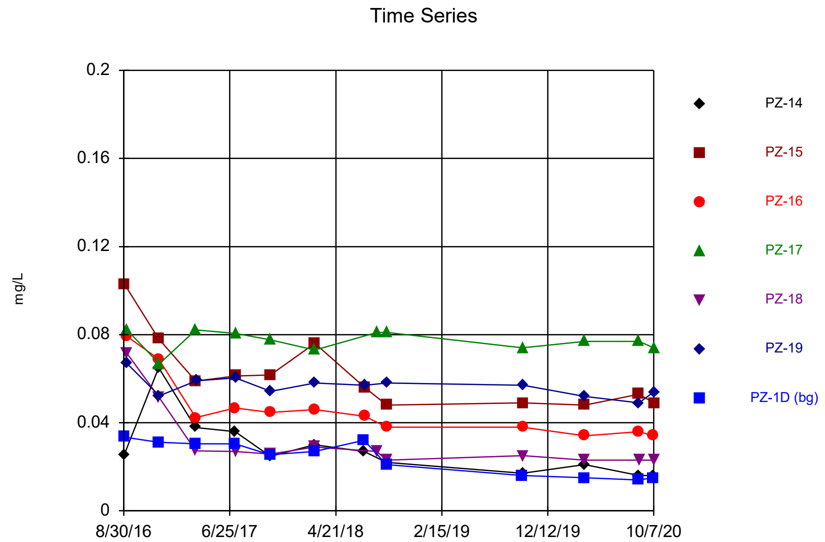
0.004
0.003
0.002
0.001
0
mg/L
8/31/16
6/18/17
4/5/18
1/21/19
11/8/19
8/26/20
PZ-23A
PZ-25
PZ-2D (bg)
PZ-31 (bg)
PZ-32 (bg)
PZ-33
PZ-7D
Constituent: Arsenic Analysis Run 12/8/2020 1:34 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



Constituent: Barium Analysis Run 12/8/2020 1:34 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
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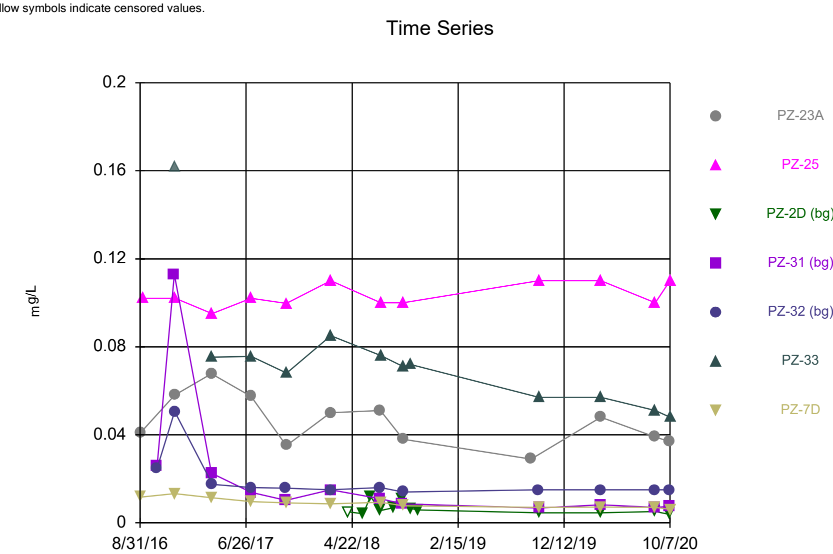

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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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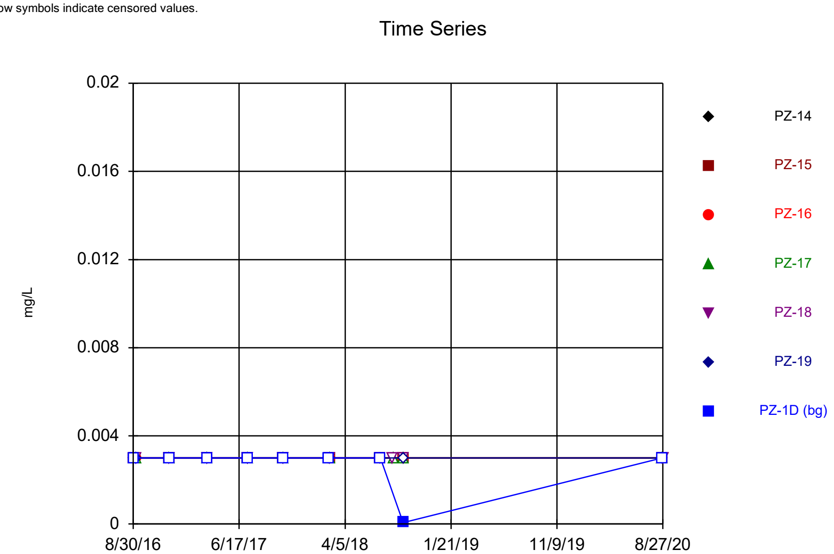

Constituent: Beryllium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
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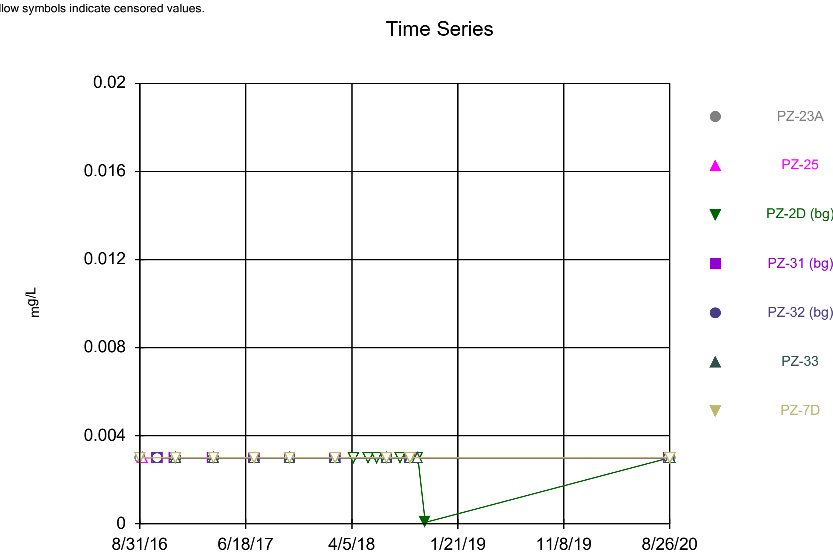

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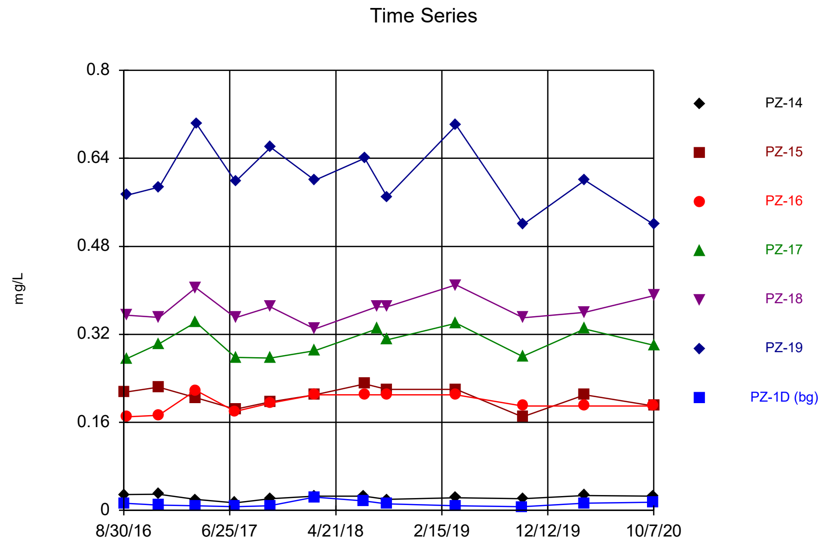
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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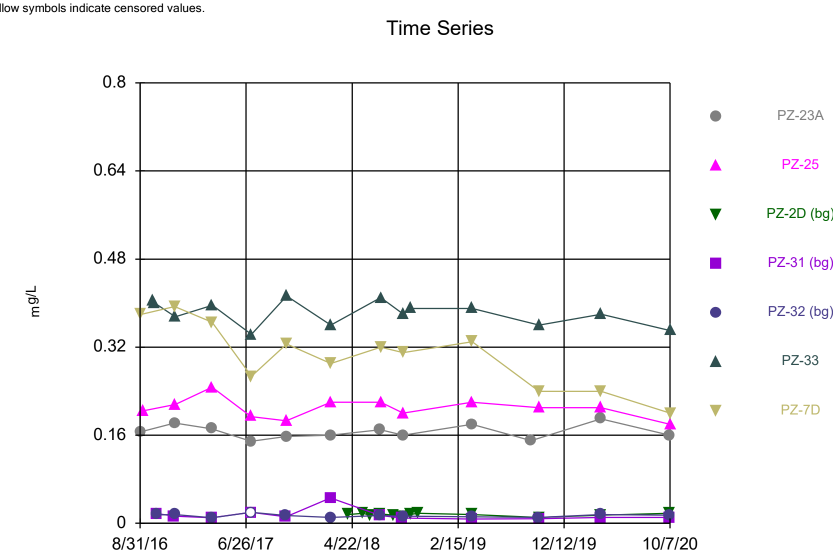

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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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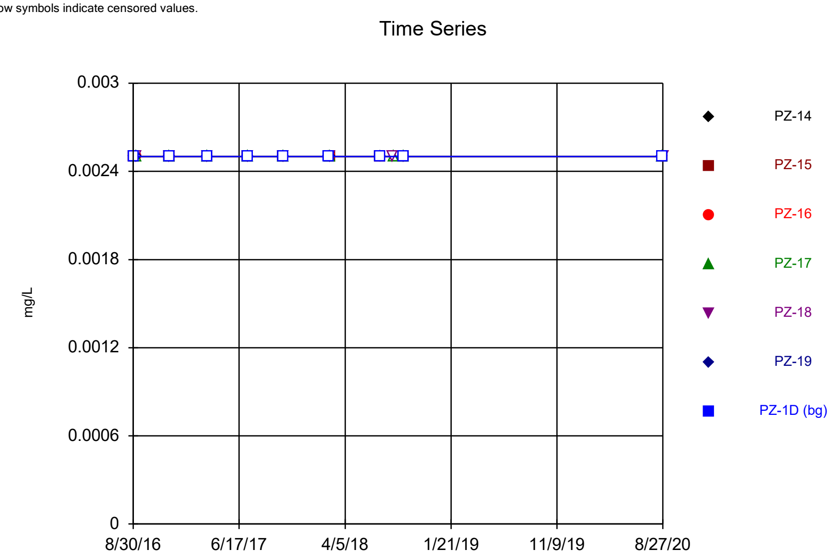

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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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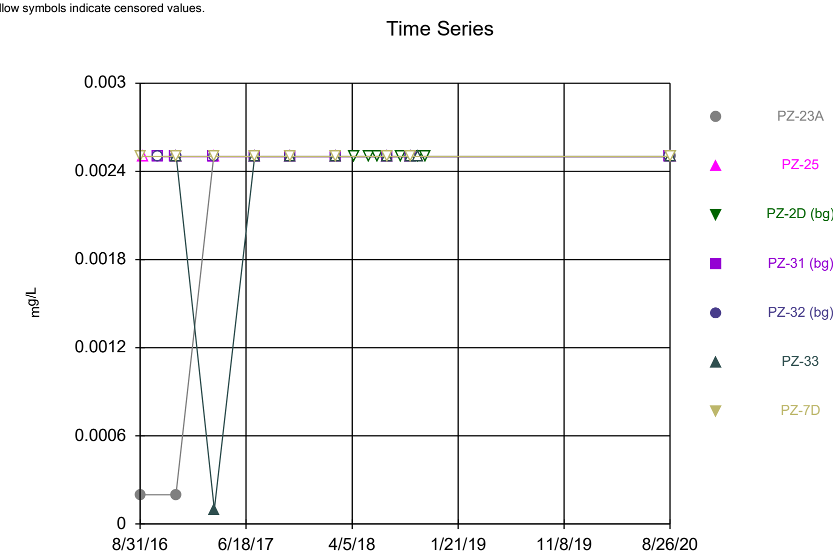

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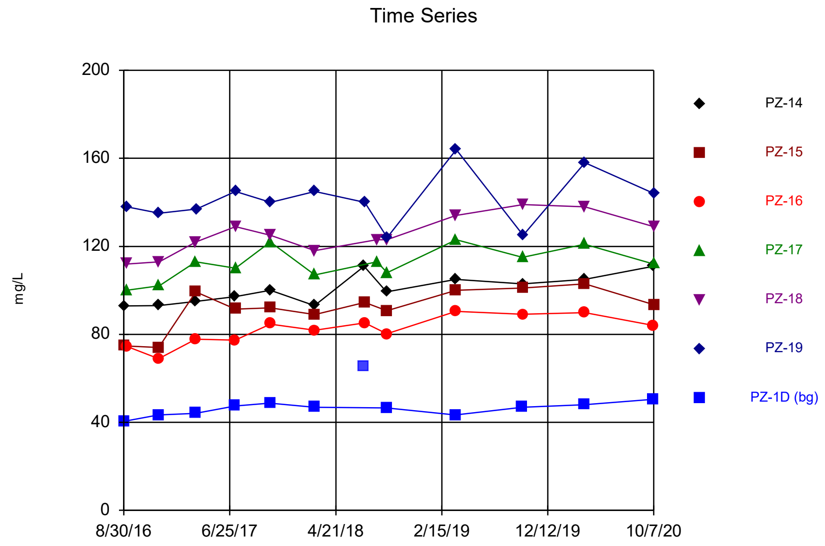
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



Constituent: Calcium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
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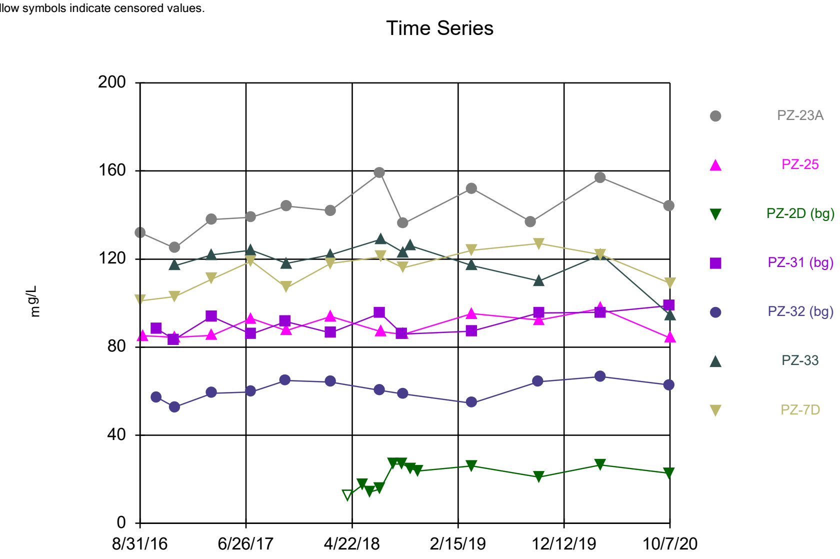

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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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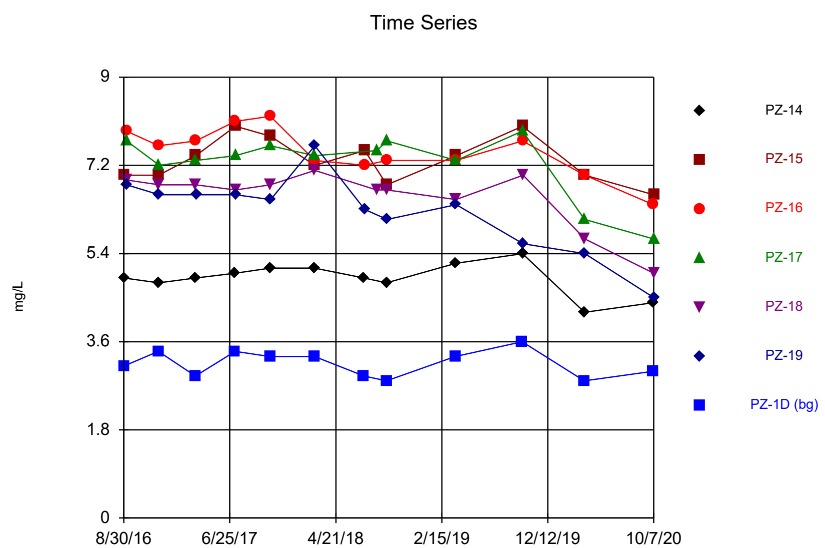
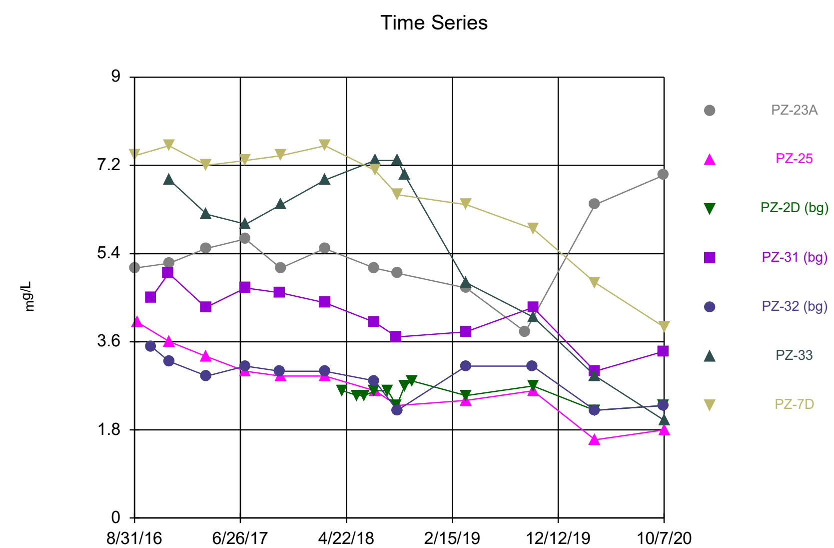


Constituent: Chloride Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



Constituent: Chloride Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
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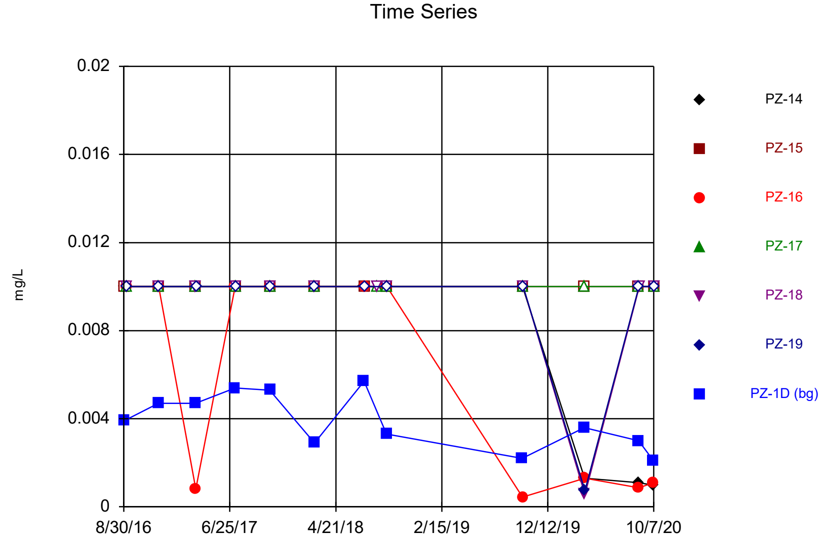

Constituent: Chromium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
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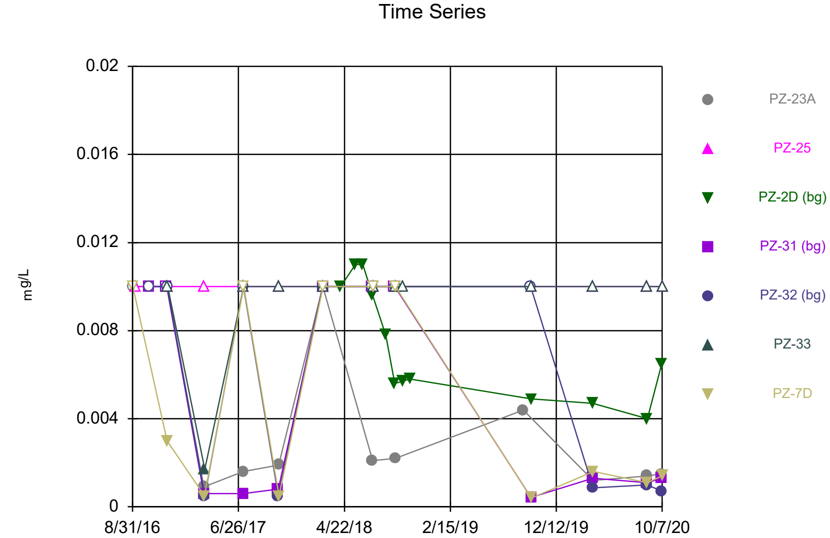

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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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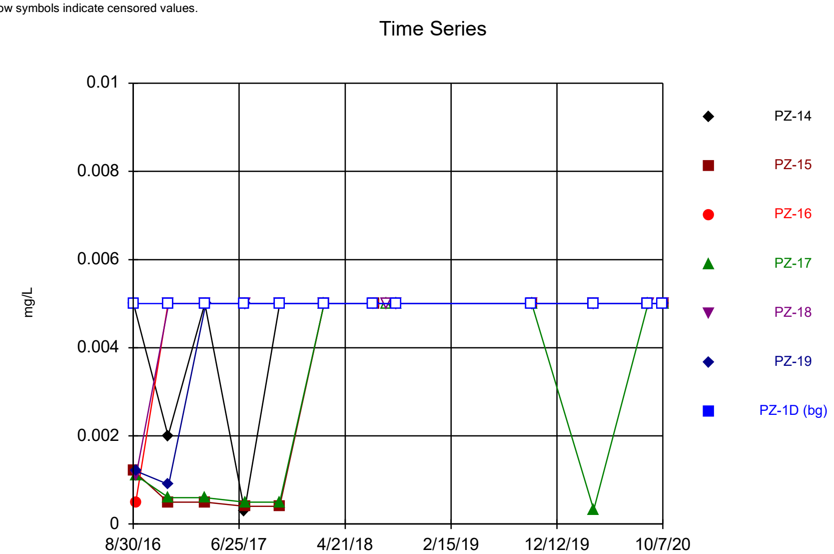

Constituent: Cobalt Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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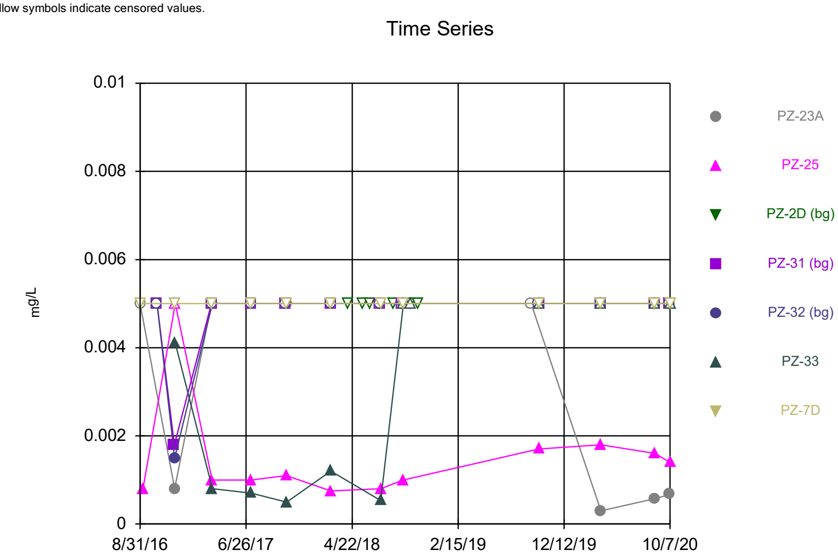
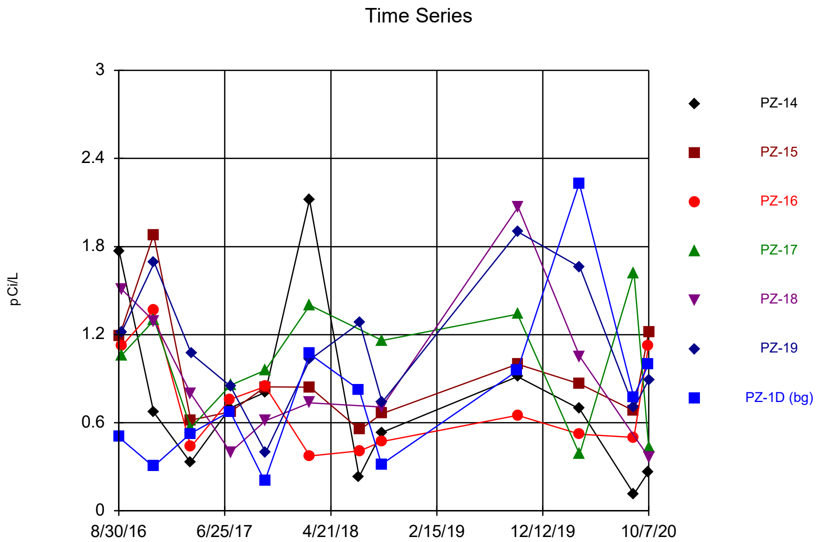


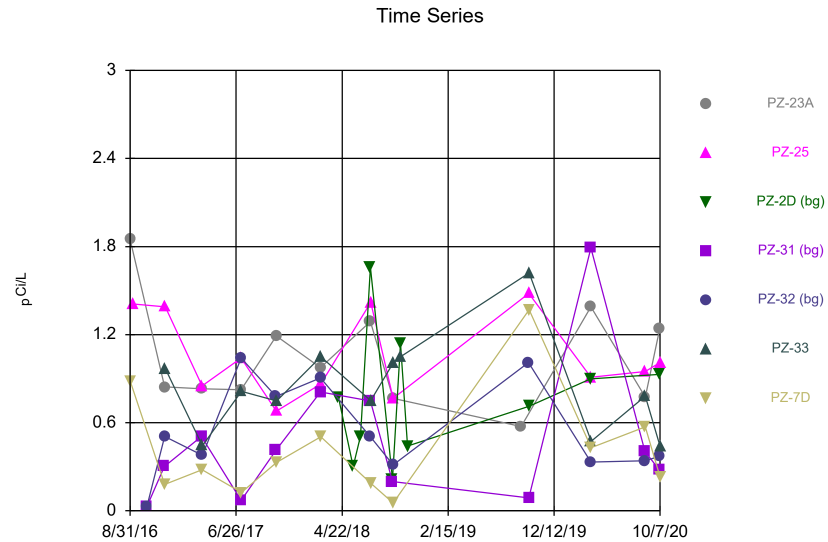
Constituent: Cobalt Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



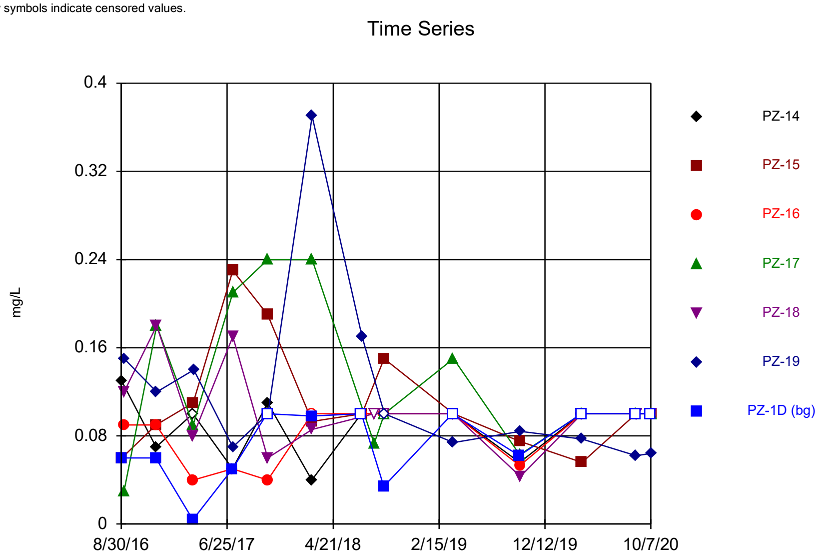
Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



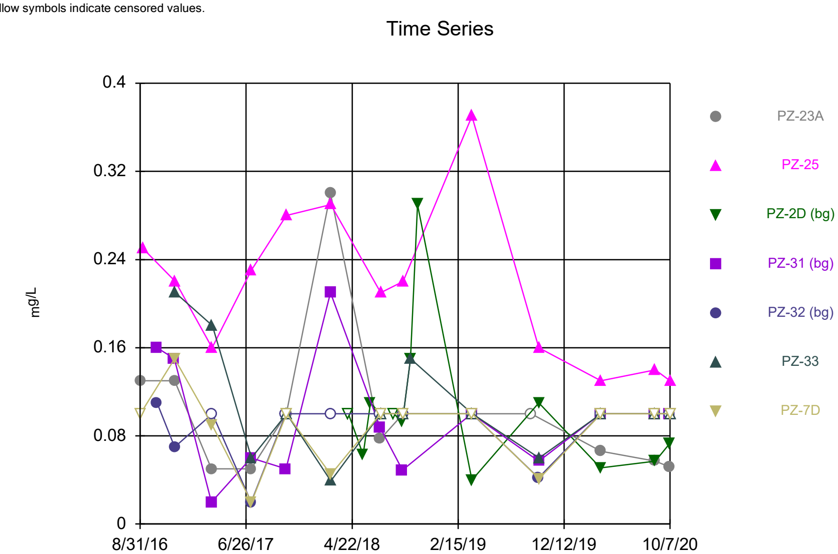
Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.



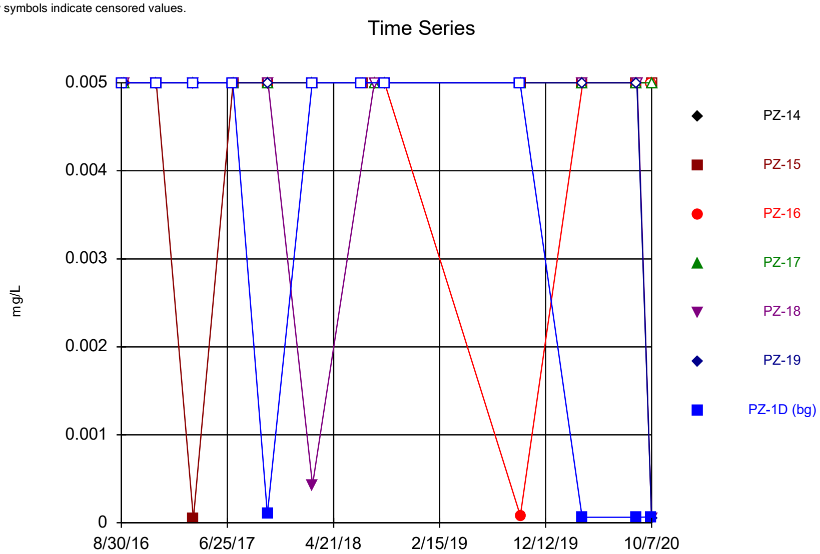
Constituent: Fluoride Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.



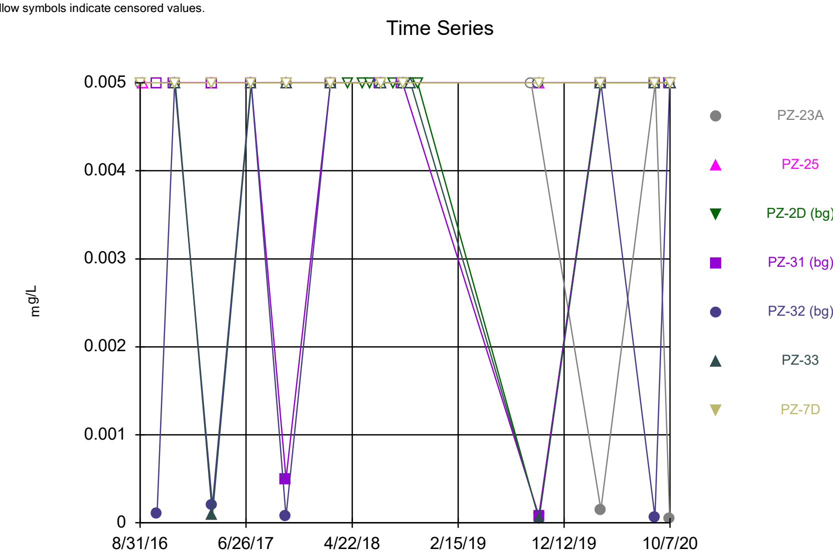
Constituent: Fluoride Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.



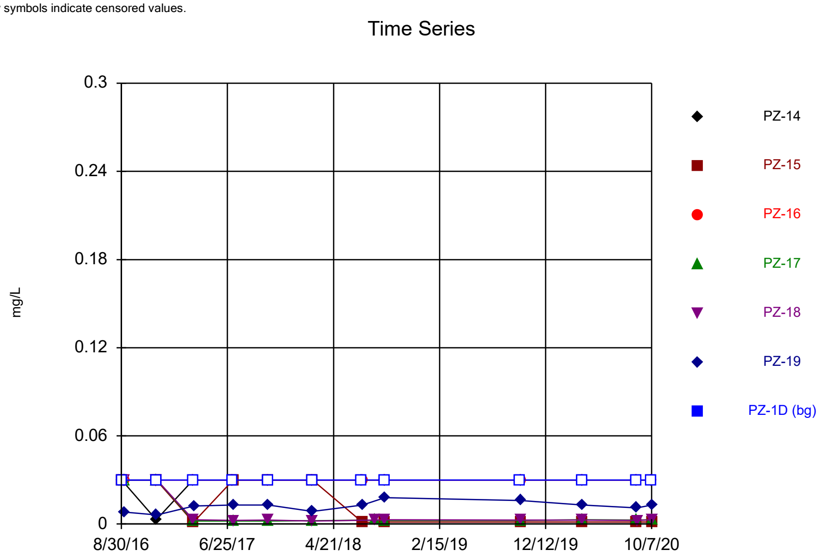
Constituent: Lead Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.



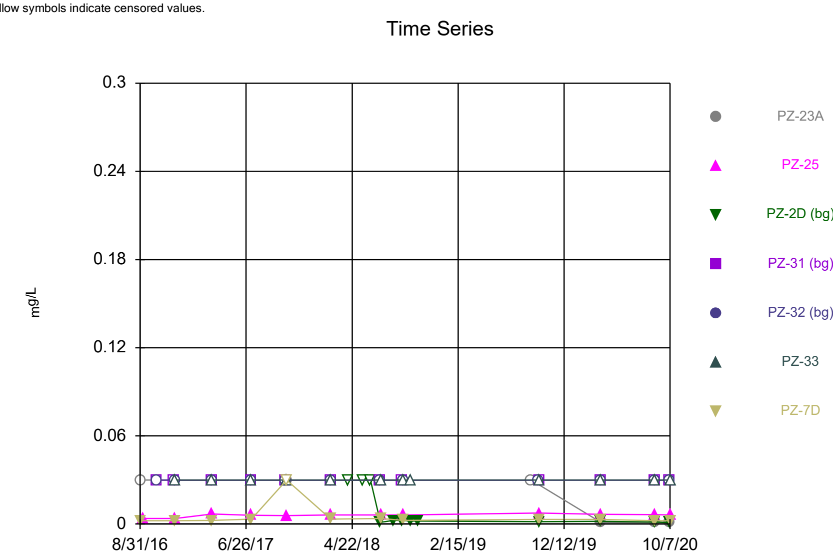
Constituent: Lead Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.



Constituent: Lithium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

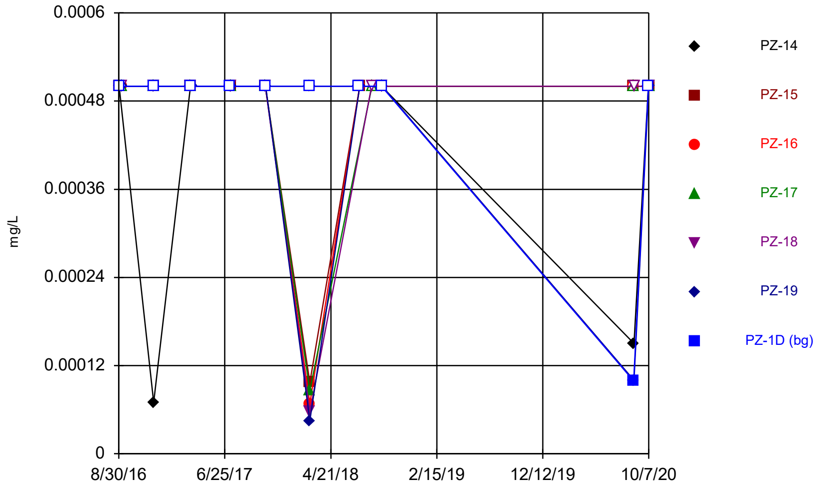
Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.



Constituent: Lithium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.

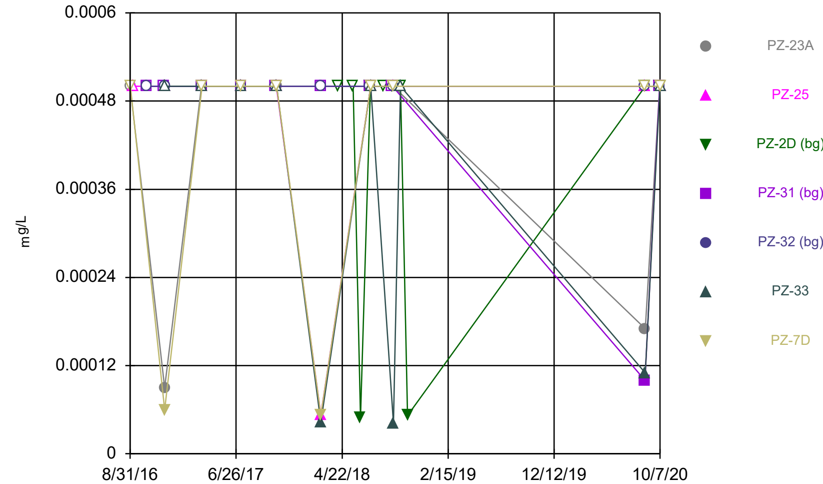
Time Series



Constituent: Mercury Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.

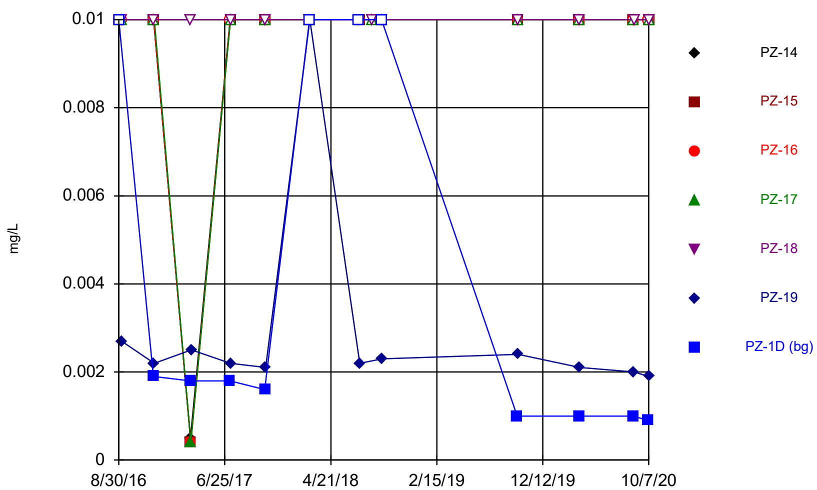
Time Series



Constituent: Mercury Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.

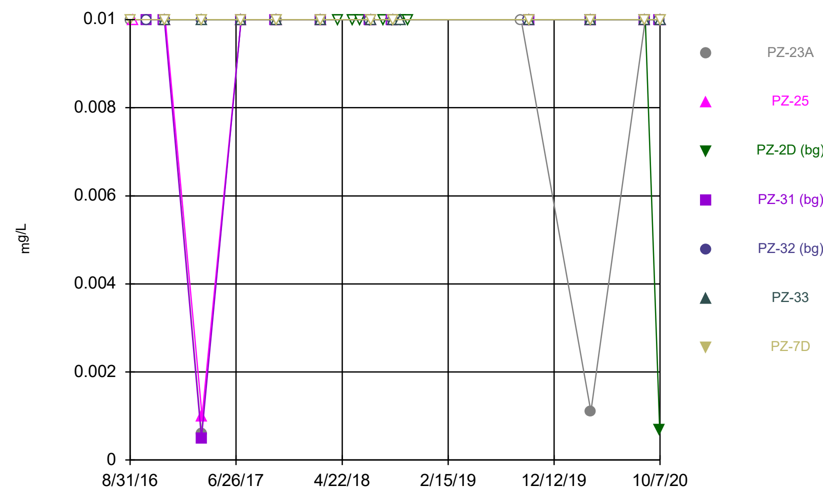
Time Series



Constituent: Molybdenum Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

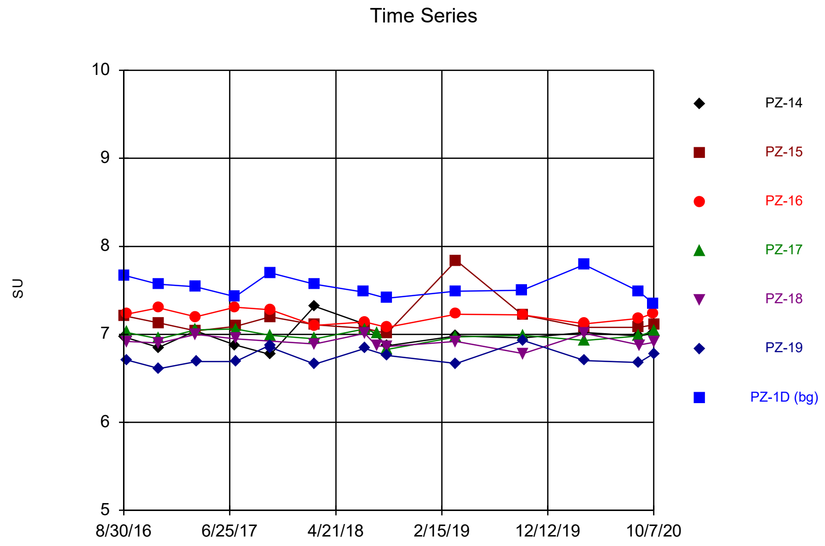
Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.

Time Series



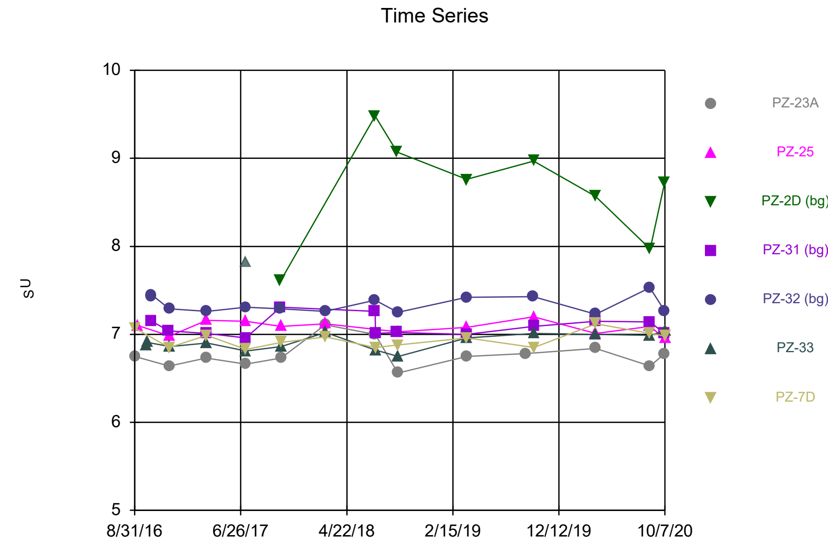
Constituent: Molybdenum Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



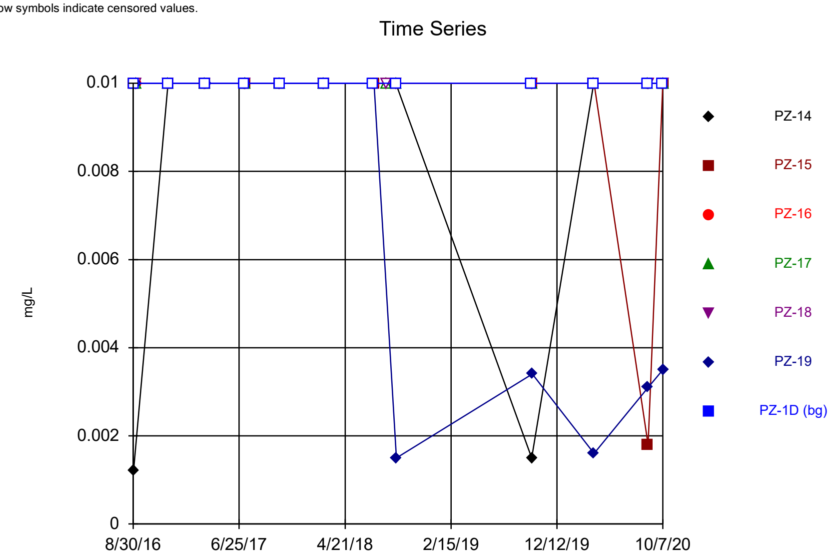
Constituent: pH Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



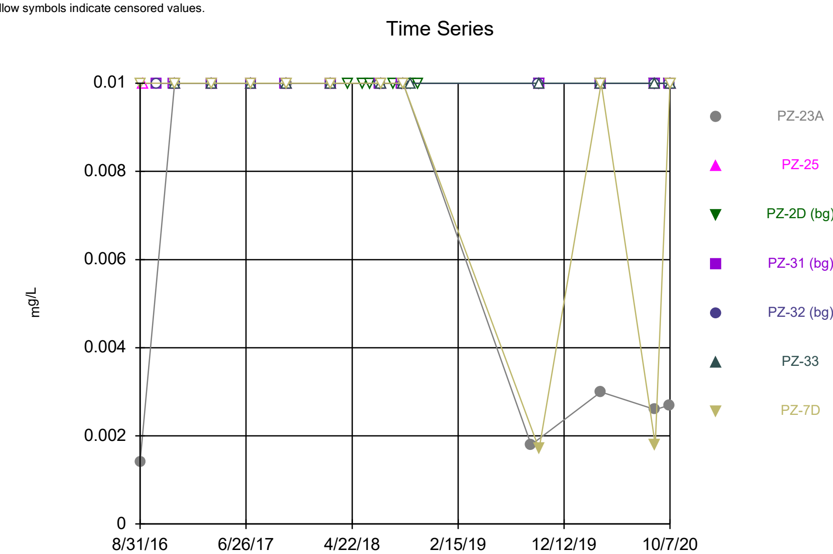
Constituent: pH Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.



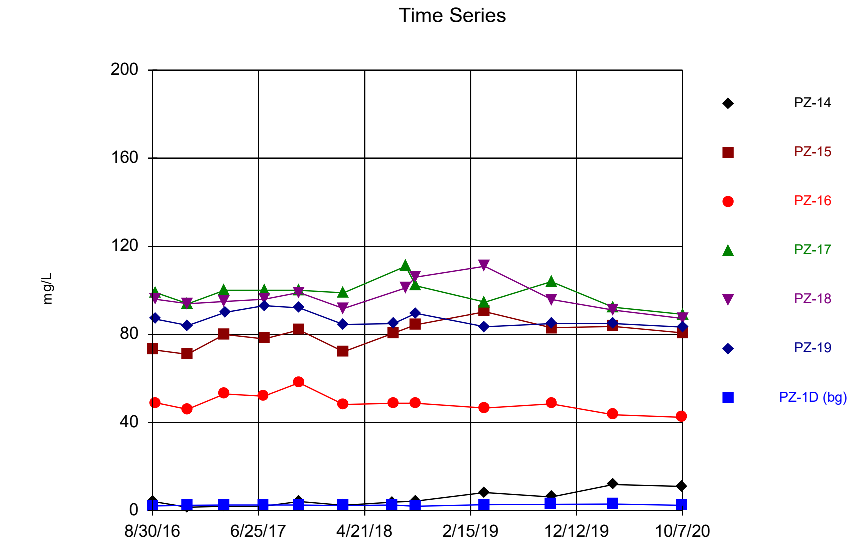
Constituent: Selenium Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.



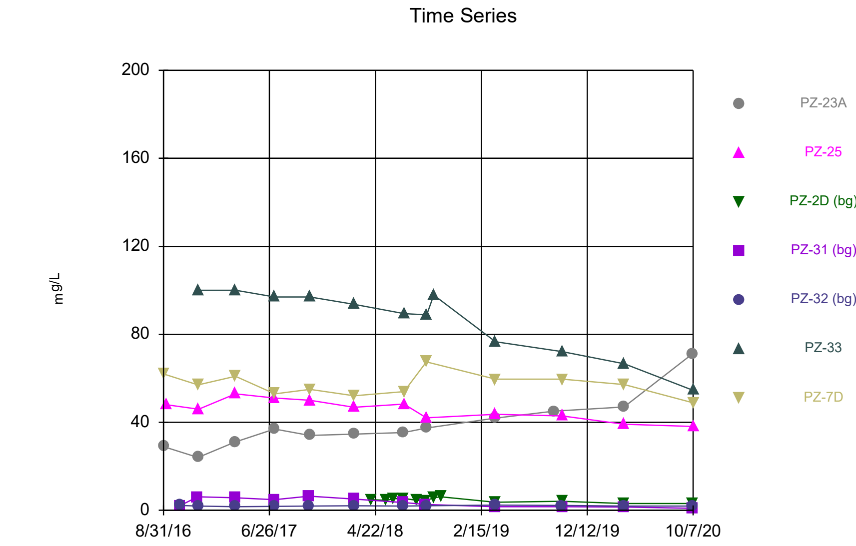
Constituent: Selenium Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



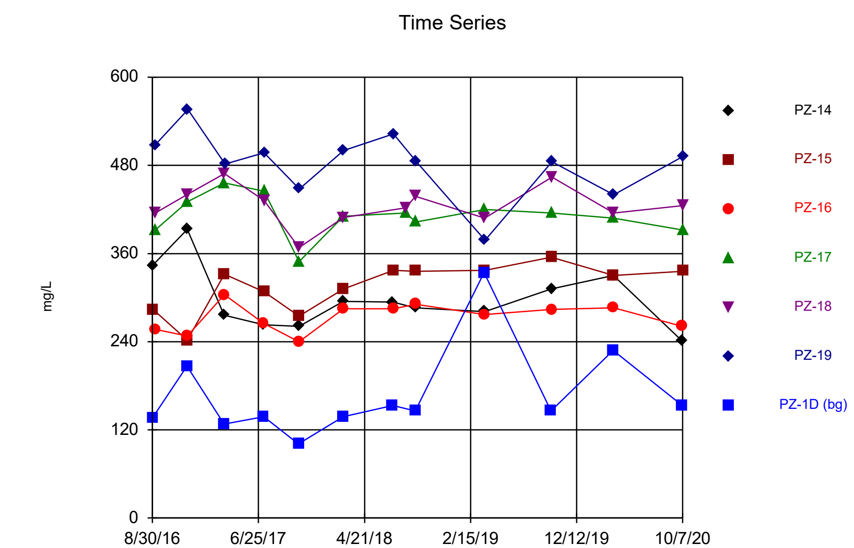
Constituent: Sulfate Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



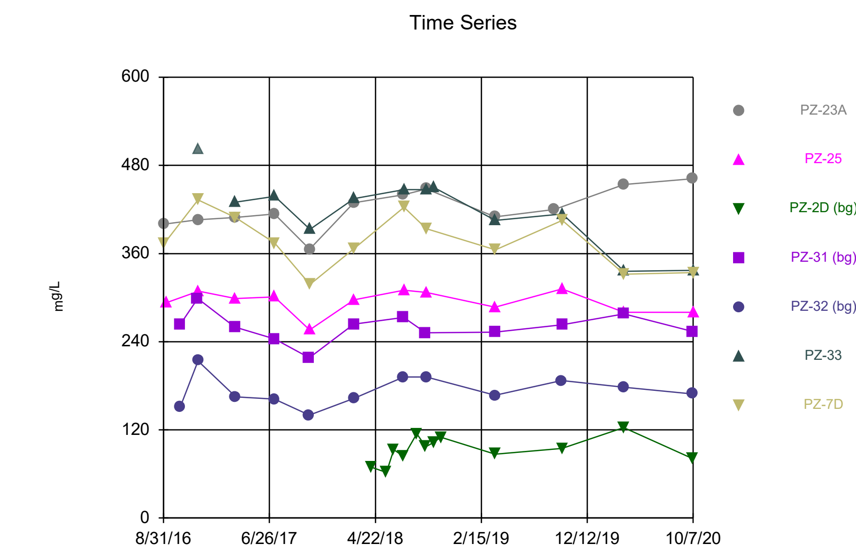
Constituent: Sulfate Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



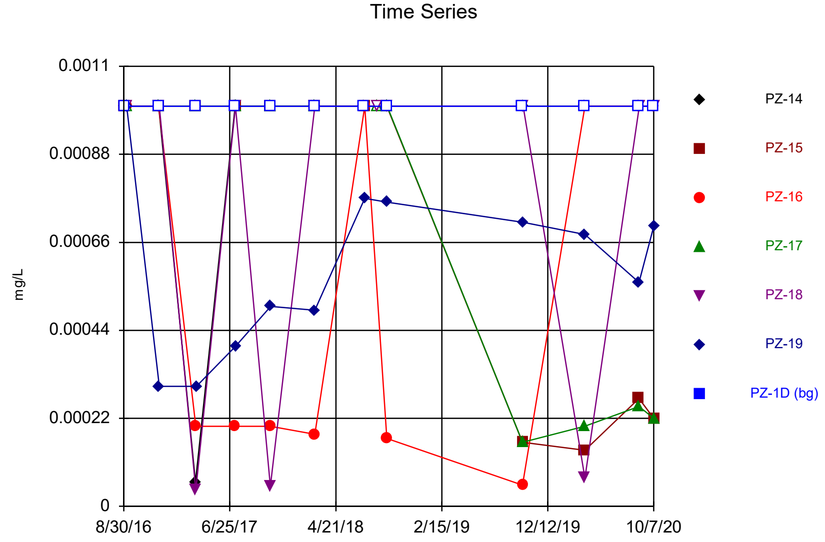
Constituent: TDS Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



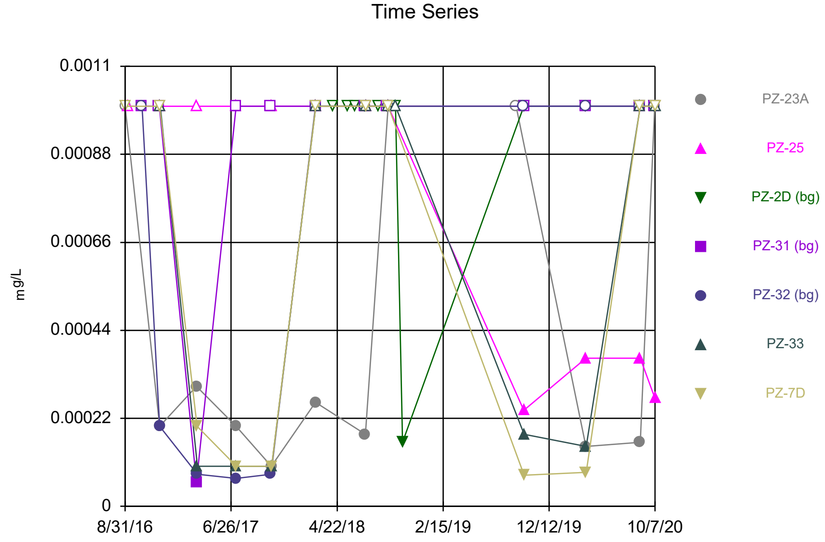
Constituent: TDS Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.



Constituent: Thallium Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.



Constituent: Thallium Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
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	

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV

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

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
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		

Time Series

Constituent: Arsenic (mg/L)   Analysis Run 12/8/2020 1:36 PM   View: Appendix III and IV

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

Time Series

Constituent: Barium (mg/L)   Analysis Run 12/8/2020 1:36 PM   View: Appendix III and IV
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	

Time Series

Constituent: Barium (mg/L) Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
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)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
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							<0.003
8/31/2016	<0.003						
9/1/2016		<0.003					
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	<0.003						<0.003
3/22/2017		<0.003	<0.003	<0.003	<0.003		
3/23/2017						<0.003	
7/11/2017	<0.003		<0.003				<0.003
7/12/2017		<0.003		<0.003	<0.003	<0.003	
10/17/2017							<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						<0.003
2/21/2018		<0.003	<0.003	<0.003	<0.003	<0.003	
7/11/2018	<0.003						<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						6.1E-05 (J)
9/13/2018		<0.003	<0.003		<0.003		
9/14/2018				<0.003		<0.003	
8/25/2020							<0.003
8/26/2020	<0.003	<0.003	<0.003	<0.003		<0.003	
8/27/2020					<0.003		

Time Series

Constituent: Beryllium (mg/L)   Analysis Run 12/8/2020 1:36 PM   View: Appendix III and IV

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				<0.003	<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			<0.003				
6/13/2018			<0.003				
7/11/2018	<0.003		<0.003	<0.003	<0.003		
7/12/2018		<0.003				<0.003	<0.003
8/17/2018			<0.003				
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			6E-05 (J)				
8/25/2020				<0.003	<0.003		
8/26/2020	<0.003	<0.003	<0.003			<0.003	<0.003

Time Series

Constituent: Boron (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV

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	

Time Series

Constituent: Boron (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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							<0.0025
8/31/2016	<0.0025						
9/1/2016		<0.0025					
9/6/2016			<0.0025				
9/7/2016				<0.0025	<0.0025	<0.0025	
12/6/2016							<0.0025
12/7/2016	<0.0025	<0.0025	<0.0025				
12/8/2016				<0.0025	<0.0025	<0.0025	
3/21/2017	<0.0025						<0.0025
3/22/2017		<0.0025	<0.0025	<0.0025	<0.0025		
3/23/2017						<0.0025	
7/11/2017	<0.0025		<0.0025				<0.0025
7/12/2017		<0.0025		<0.0025	<0.0025	<0.0025	
10/17/2017							<0.0025
10/18/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
10/19/2017						<0.0025	
2/20/2018	<0.0025						<0.0025
2/21/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
7/11/2018	<0.0025						<0.0025
7/12/2018		<0.0025	<0.0025			<0.0025	
8/15/2018					<0.0025		
8/16/2018				<0.0025			
9/12/2018	<0.0025						<0.0025
9/13/2018		<0.0025	<0.0025		<0.0025		
9/14/2018				<0.0025		<0.0025	
8/25/2020							<0.0025
8/26/2020	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	
8/27/2020					<0.0025		

Time Series

Constituent: Cadmium (mg/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV
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							<0.0025
9/8/2016		<0.0025					
10/18/2016				<0.0025	<0.0025		
12/6/2016				<0.0025			
12/7/2016	0.0002 (J)				<0.0025		<0.0025
12/8/2016		<0.0025				<0.0025	
3/21/2017	<0.0025			<0.0025			
3/22/2017		<0.0025					<0.0025
3/23/2017					<0.0025	0.0001 (J)	
7/11/2017	<0.0025	<0.0025		<0.0025	<0.0025		
7/12/2017						<0.0025	<0.0025
10/17/2017				<0.0025	<0.0025		
10/18/2017	<0.0025	<0.0025					
10/19/2017						<0.0025	<0.0025
2/20/2018	<0.0025			<0.0025	<0.0025		
2/21/2018		<0.0025				<0.0025	<0.0025
4/12/2018			<0.0025				
5/23/2018			<0.0025				
6/13/2018			<0.0025				
7/11/2018	<0.0025		<0.0025	<0.0025	<0.0025		
7/12/2018		<0.0025				<0.0025	<0.0025
8/17/2018			<0.0025				
9/12/2018			<0.0025	<0.0025			
9/13/2018	<0.0025	<0.0025			<0.0025		<0.0025
9/14/2018						<0.0025	
10/4/2018			<0.0025			<0.0025	
10/24/2018			<0.0025				
8/25/2020				<0.0025	<0.0025		
8/26/2020	<0.0025	<0.0025	<0.0025			<0.0025	<0.0025

Time Series

Constituent: Calcium (mg/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV
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	

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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

Time Series

Constituent: Chloride (mg/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV

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	

Time Series

Constituent: Chloride (mg/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV

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

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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	<0.01						
9/1/2016		<0.01					
9/6/2016			<0.01				
9/7/2016				<0.01	<0.01	<0.01	
12/6/2016							0.0047 (J)
12/7/2016	<0.01	<0.01	<0.01				
12/8/2016				<0.01	<0.01	<0.01	
3/21/2017	<0.01						0.0047 (J)
3/22/2017		<0.01	0.0008 (J)	<0.01	<0.01		
3/23/2017						<0.01	
7/11/2017	<0.01		<0.01				0.0054 (J)
7/12/2017		<0.01		<0.01	<0.01	<0.01	
10/17/2017							0.0053 (J)
10/18/2017	<0.01	<0.01	<0.01	<0.01	<0.01		
10/19/2017						<0.01	
2/20/2018	<0.01						0.0029 (J)
2/21/2018		<0.01	<0.01	<0.01	<0.01	<0.01	
7/11/2018	<0.01						0.0057 (J)
7/12/2018		<0.01	<0.01			<0.01	
8/15/2018					<0.01		
8/16/2018				<0.01			
9/12/2018	<0.01						0.0033 (J)
9/13/2018		<0.01	<0.01		<0.01		
9/14/2018				<0.01		<0.01	
10/1/2019							0.0022 (X)
10/2/2019	<0.01	<0.01	0.00044 (X)	<0.01			
10/3/2019					<0.01	<0.01	
3/24/2020							0.0036 (J)
3/25/2020	0.0013 (J)			<0.01			
3/26/2020		<0.01	0.0013 (J)		0.00056 (J)	0.00073 (J)	
8/25/2020							0.003 (J)
8/26/2020	0.0011 (J)	<0.01	0.00087 (J)	<0.01		<0.01	
8/27/2020					<0.01		
10/6/2020	0.00098 (J)		0.0011 (J)				0.0021 (J)
10/7/2020		<0.01		<0.01	<0.01	<0.01	

Time Series

Constituent: Chromium (mg/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV

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		0.003 (J)
12/8/2016		<0.01				<0.01	
3/21/2017	0.0009 (J)			0.0006 (J)			
3/22/2017		<0.01					0.0005 (J)
3/23/2017					0.0005 (J)	0.0017 (J)	
7/11/2017	0.0016 (J)	<0.01		0.0006 (J)	<0.01		
7/12/2017						<0.01	<0.01
10/17/2017				0.0008 (J)	0.0005 (J)		
10/18/2017	0.0019 (J)	<0.01					
10/19/2017						<0.01	0.0005 (J)
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			0.011				
6/13/2018			0.011				
7/11/2018	0.0021 (J)		0.0096 (J)	<0.01	<0.01		
7/12/2018		<0.01				<0.01	<0.01
8/17/2018			0.0078 (J)				
9/12/2018			0.0056 (J)	<0.01			
9/13/2018	0.0022 (J)	<0.01			<0.01		<0.01
9/14/2018						<0.01	
10/4/2018			0.0057 (J)			<0.01	
10/24/2018			0.0058 (J)				
9/10/2019	0.0044 (X)						
10/1/2019					<0.01		
10/2/2019		<0.01	0.0049 (X)	0.00043 (X)			
10/3/2019						<0.01	0.0004 (X)
3/24/2020			0.0047 (J)				
3/25/2020	0.0012 (J)	<0.01		0.0013 (J)	0.00086 (J)		
3/26/2020						<0.01	0.0016 (J)
8/25/2020				0.0011 (J)	0.001 (J)		
8/26/2020	0.0014 (J)	<0.01	0.004 (J)			<0.01	0.0011 (J)
10/6/2020	0.0015 (J)		0.0065 (J)	0.0013 (J)	0.00072 (J)		
10/7/2020		<0.01				<0.01	0.0014 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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	

Time Series

Constituent: Cobalt (mg/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV
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

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV

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	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV

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)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV

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

Time Series

Constituent: Lead (mg/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV
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		5E-05 (J)	<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							0.0001 (J)
10/18/2017	<0.005	<0.005	<0.005	<0.005	<0.005		
10/19/2017						<0.005	
2/20/2018	<0.005						<0.005
2/21/2018		<0.005	<0.005	<0.005	0.00043 (J)	<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	8.1E-05 (X)	<0.005			
10/3/2019					<0.005	<0.005	
3/24/2020							6.2E-05 (J)
3/25/2020	<0.005			<0.005			
3/26/2020		<0.005	<0.005		<0.005	<0.005	
8/25/2020							6.5E-05 (J)
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				6.6E-05 (J)
10/7/2020		<0.005		<0.005	4.2E-05 (J)	4.2E-05 (J)	

Time Series

Constituent: Lead (mg/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV
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	0.0001 (J)		
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					0.0002 (J)	9E-05 (J)	
7/11/2017	<0.005	<0.005		<0.005	<0.005		
7/12/2017						<0.005	<0.005
10/17/2017				0.0005 (J)	7E-05 (J)		
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	<0.005						
10/1/2019					<0.005		
10/2/2019		<0.005	4.7E-05 (X)	8.1E-05 (X)			
10/3/2019						4.7E-05 (X)	<0.005
3/24/2020			<0.005				
3/25/2020	0.00015 (J)	<0.005		<0.005	<0.005		
3/26/2020						<0.005	<0.005
8/25/2020				<0.005	6.3E-05 (J)		
8/26/2020	<0.005	<0.005	<0.005			<0.005	<0.005
10/6/2020	4.7E-05 (J)		<0.005	<0.005	<0.005		
10/7/2020		<0.005				<0.005	<0.005

Time Series

Constituent: Lithium (mg/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV
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)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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)

Time Series

Constituent: Mercury (mg/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV
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	7E-05 (J)	<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		9.7E-05 (J)	6.8E-05 (J)	8.6E-05 (J)	5.7E-05 (J)	4.5E-05 (J)	
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							9.9E-05 (J)
8/26/2020	0.00015 (J)	<0.0005	<0.0005	<0.0005		0.0001 (J)	
8/27/2020					<0.0005		
10/6/2020	<0.0005		<0.0005				<0.0005
10/7/2020		<0.0005		<0.0005	<0.0005	<0.0005	

Time Series

Constituent: Mercury (mg/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV
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	9E-05 (J)				<0.0005		6E-05 (J)
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		5.3E-05 (J)				4.3E-05 (J)	5.3E-05 (J)
4/12/2018			<0.0005				
5/23/2018			<0.0005				
6/13/2018			4.9E-05 (J)				
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						4.1E-05 (J)	
10/4/2018			<0.0005			<0.0005	
10/24/2018			5.2E-05 (J)				
8/25/2020				0.0001 (J)	<0.0005		
8/26/2020	0.00017 (J)	<0.0005	<0.0005			0.00011 (J)	<0.0005
10/6/2020	<0.0005		<0.0005	<0.0005	<0.0005		
10/7/2020		<0.0005				<0.0005	<0.0005

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV

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)	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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

Time Series

Constituent: pH (SU)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV

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	

Time Series

Constituent: pH (SU) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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

Time Series

Constituent: Selenium (mg/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV

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	0.0012 (J)						
9/1/2016		<0.01					
9/6/2016			<0.01				
9/7/2016				<0.01	<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	<0.01	
3/21/2017	<0.01						<0.01
3/22/2017		<0.01	<0.01	<0.01	<0.01		
3/23/2017						<0.01	
7/11/2017	<0.01		<0.01				<0.01
7/12/2017		<0.01		<0.01	<0.01	<0.01	
10/17/2017							<0.01
10/18/2017	<0.01	<0.01	<0.01	<0.01	<0.01		
10/19/2017						<0.01	
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			<0.01	
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		0.0015 (J)	
10/1/2019							<0.01
10/2/2019	0.0015 (X)	<0.01	<0.01	<0.01			
10/3/2019					<0.01	0.0034 (X)	
3/24/2020							<0.01
3/25/2020	<0.01			<0.01			
3/26/2020		<0.01	<0.01		<0.01	0.0016 (J)	
8/25/2020							<0.01
8/26/2020	<0.01	0.0018 (J)	<0.01	<0.01		0.0031 (J)	
8/27/2020					<0.01		
10/6/2020	<0.01		<0.01				<0.01
10/7/2020		<0.01		<0.01	<0.01	0.0035 (J)	

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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							<0.01
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	<0.01			<0.01			
3/22/2017		<0.01					<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	0.0018 (X)						
10/1/2019					<0.01		
10/2/2019		<0.01	<0.01	<0.01			
10/3/2019						<0.01	0.0017 (X)
3/24/2020			<0.01				
3/25/2020	0.003 (J)	<0.01		<0.01	<0.01		
3/26/2020						<0.01	<0.01
8/25/2020				<0.01	<0.01		
8/26/2020	0.0026 (J)	<0.01	<0.01			<0.01	0.0018 (J)
10/6/2020	0.0027 (J)		<0.01	<0.01	<0.01		
10/7/2020		<0.01				<0.01	<0.01

Time Series

Constituent: Sulfate (mg/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV

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	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV

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

Time Series

Constituent: TDS (mg/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV
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	

Time Series

Constituent: TDS (mg/L)   Analysis Run 12/8/2020 1:37 PM   View: Appendix III and IV
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

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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)	

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV

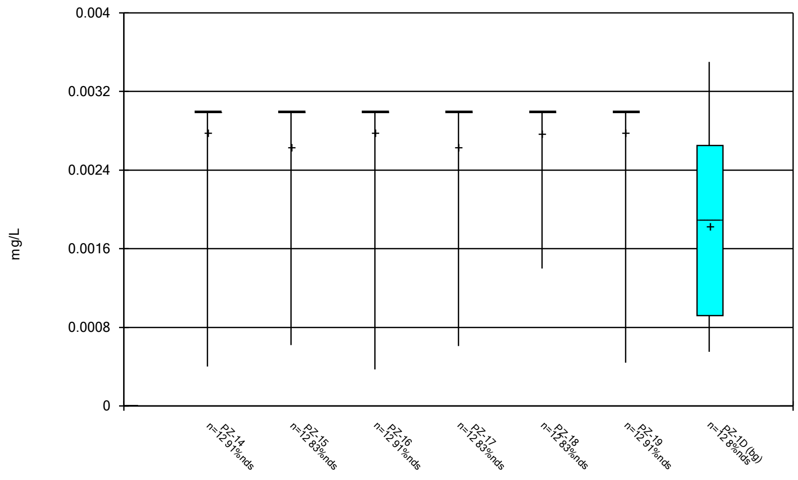
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	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

FIGURE B.

Sanitas™ v.9.6.27 . UG

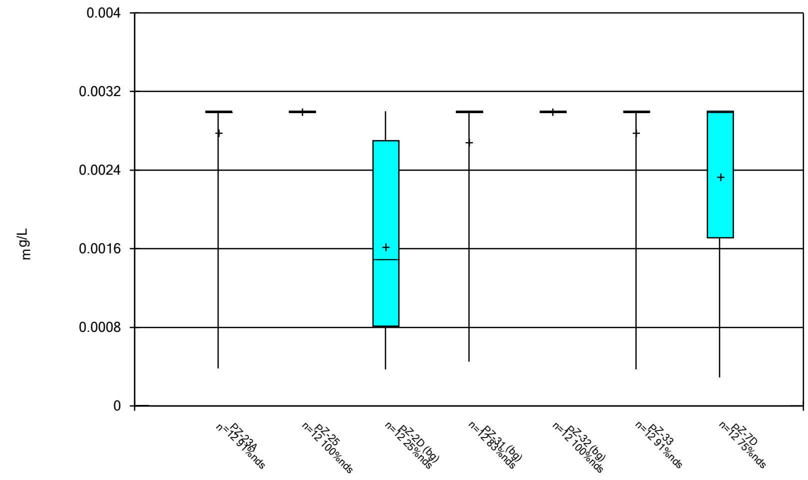
Box & Whiskers Plot



Constituent: Antimony   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

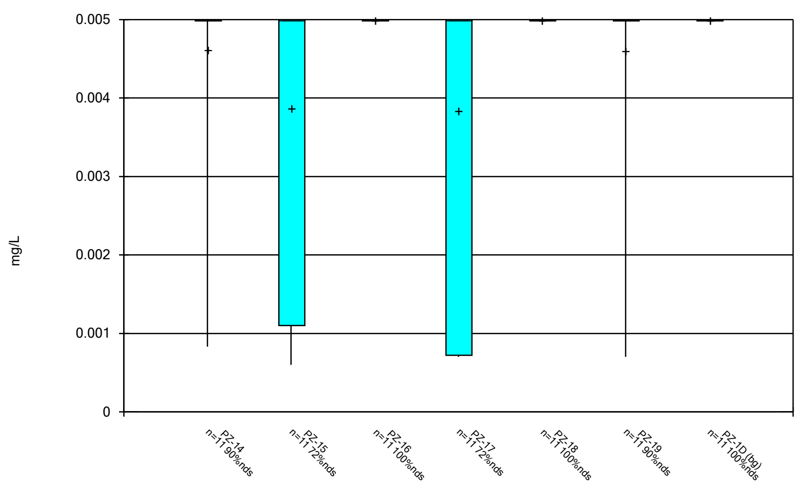
Box & Whiskers Plot



Constituent: Antimony   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

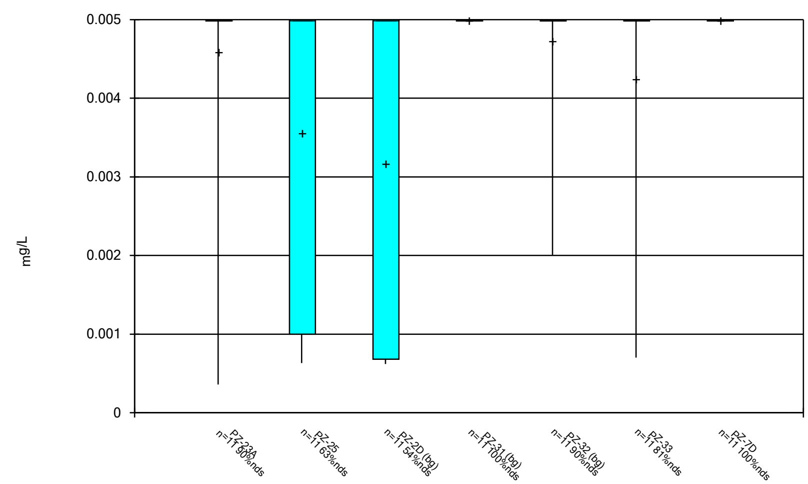
Box & Whiskers Plot



Constituent: Arsenic   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

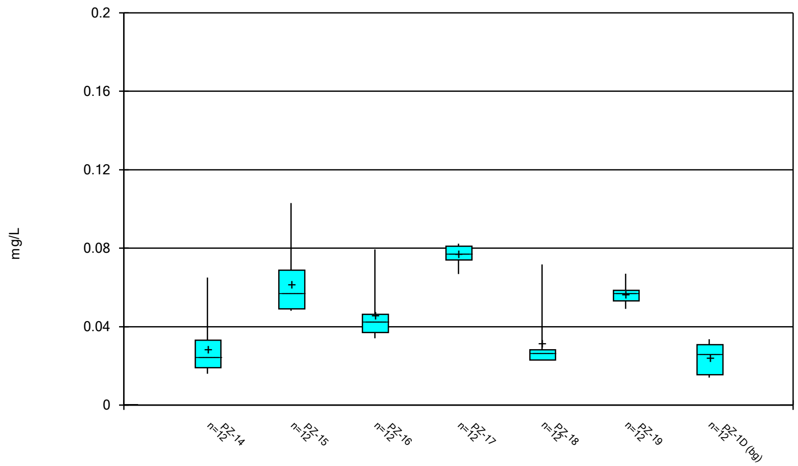
Box & Whiskers Plot



Constituent: Arsenic   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

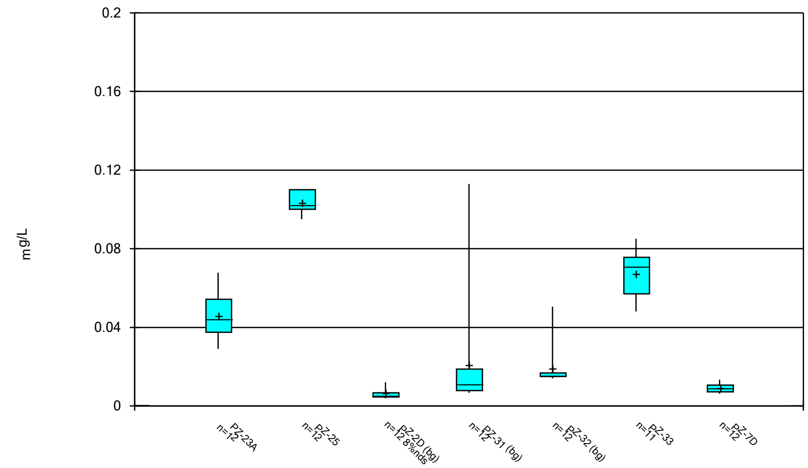
Box & Whiskers Plot



Constituent: Barium   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

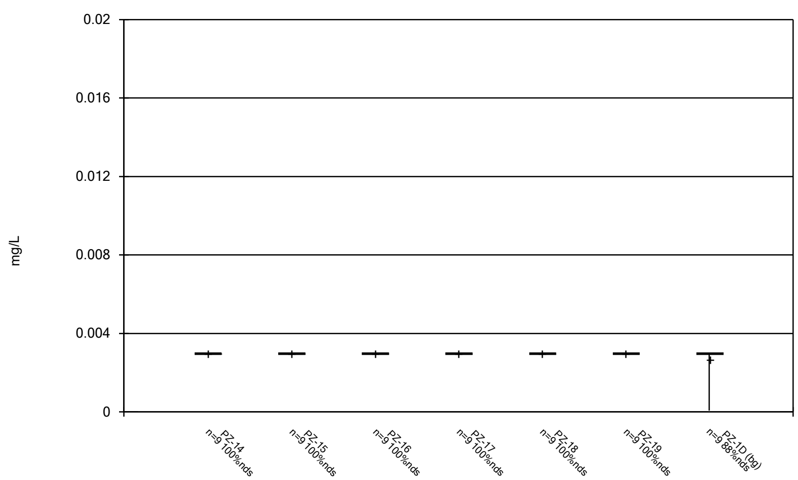
Box & Whiskers Plot



Constituent: Barium   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

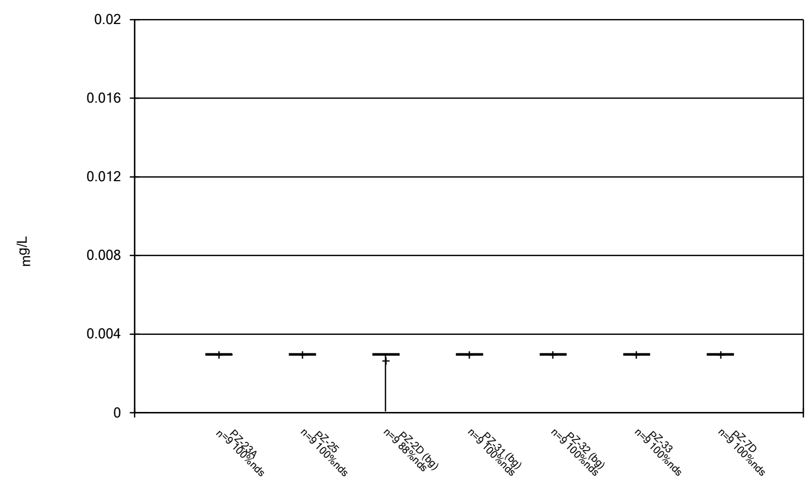
Box & Whiskers Plot



Constituent: Beryllium   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

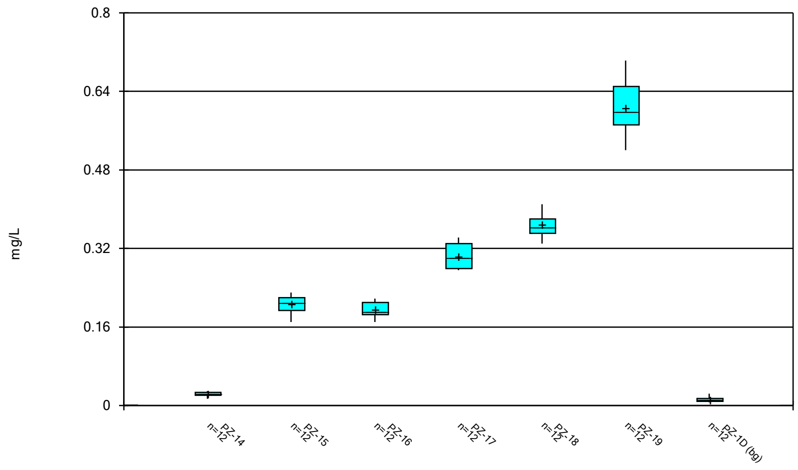
Box & Whiskers Plot



Constituent: Beryllium   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

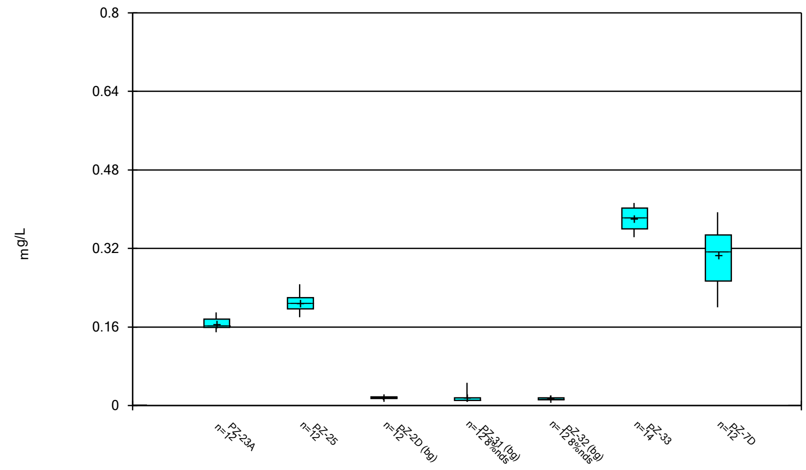
Box & Whiskers Plot



Constituent: Boron Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

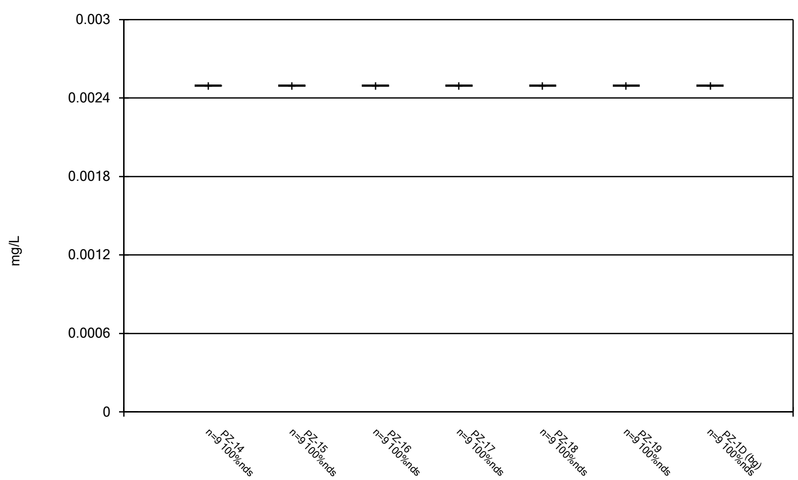
Box & Whiskers Plot



Constituent: Boron Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

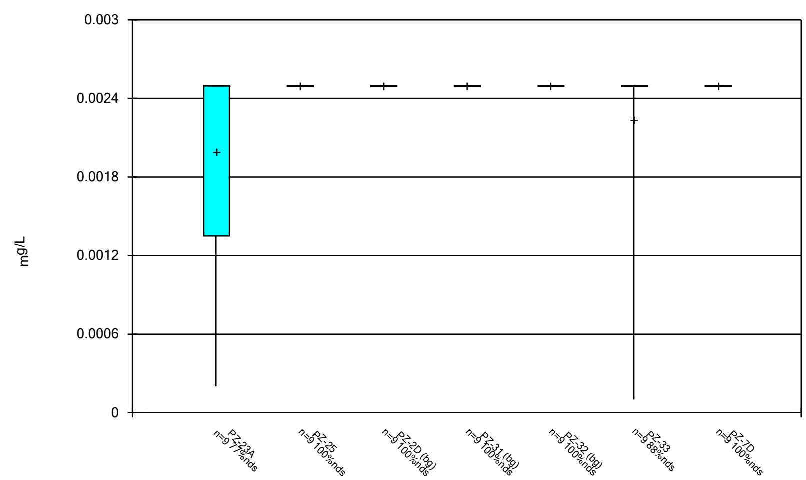
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

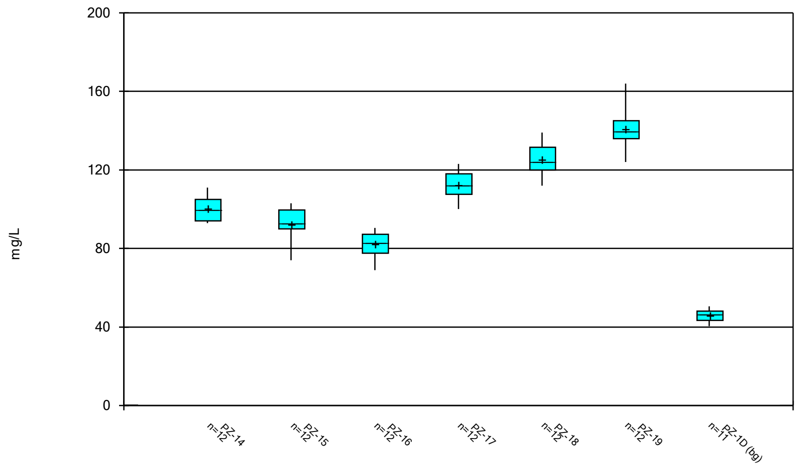
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

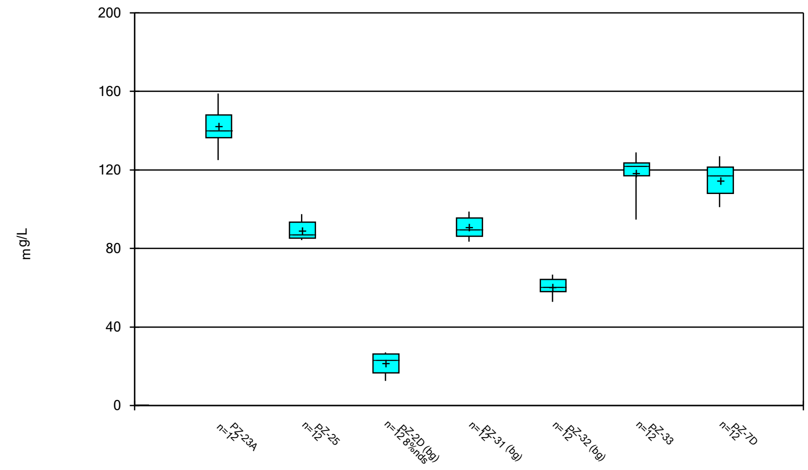
Box & Whiskers Plot



Constituent: Calcium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

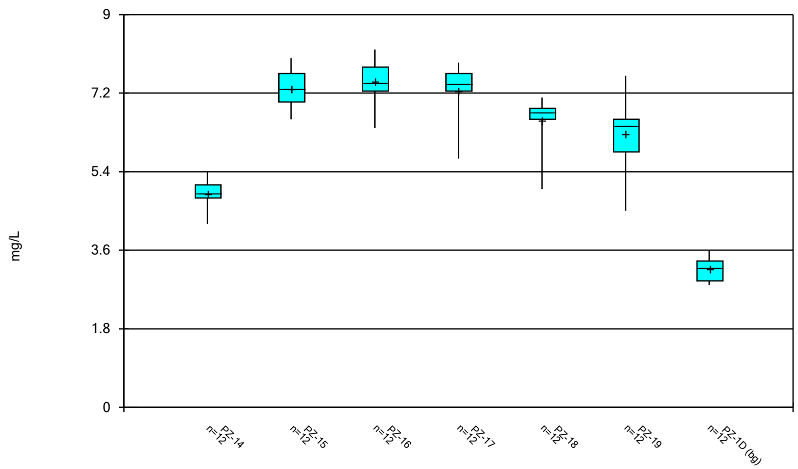
Box & Whiskers Plot



Constituent: Calcium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

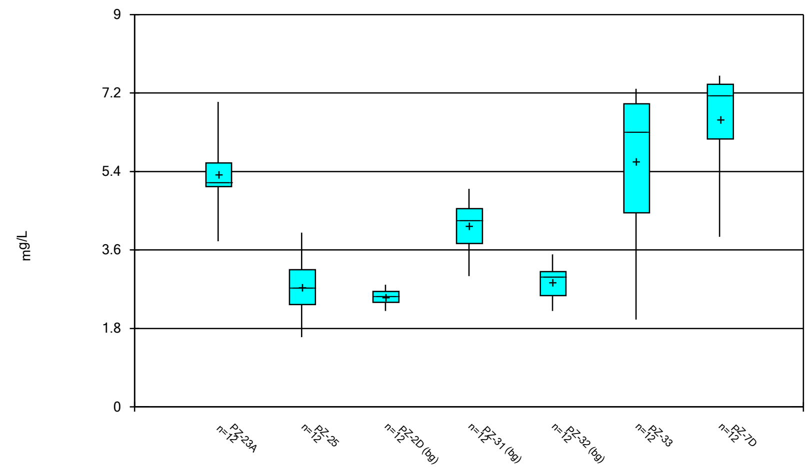
Box & Whiskers Plot



Constituent: Chloride Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

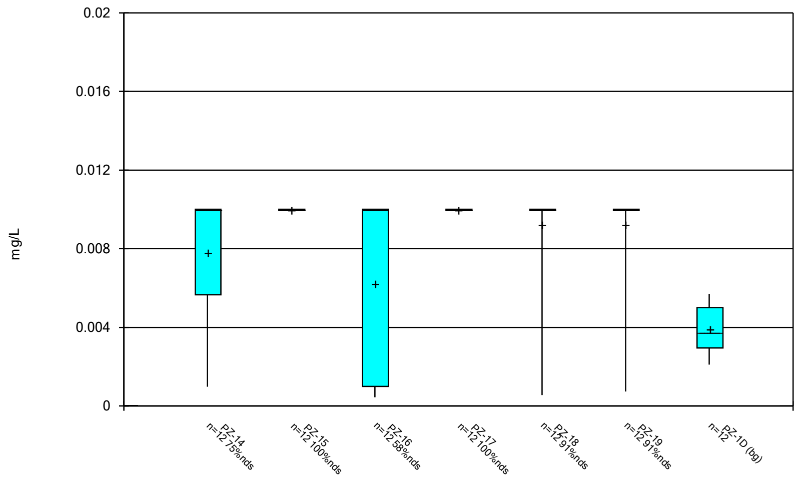
Box & Whiskers Plot



Constituent: Chloride Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

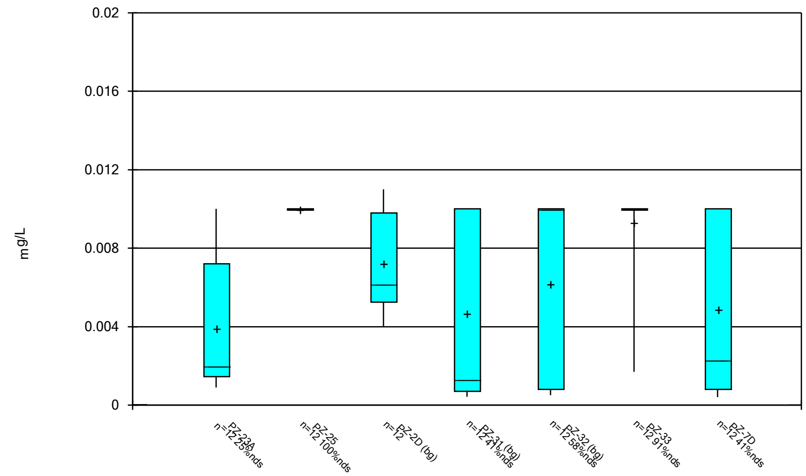
Box & Whiskers Plot



Constituent: Chromium   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

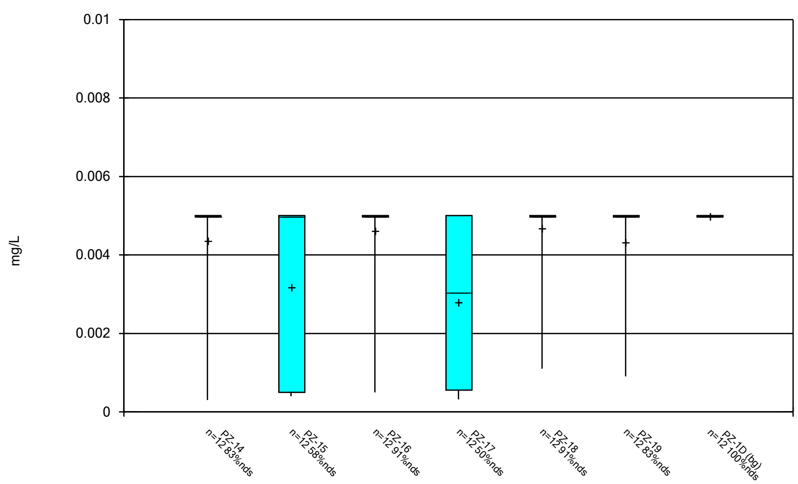
Box & Whiskers Plot



Constituent: Chromium   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

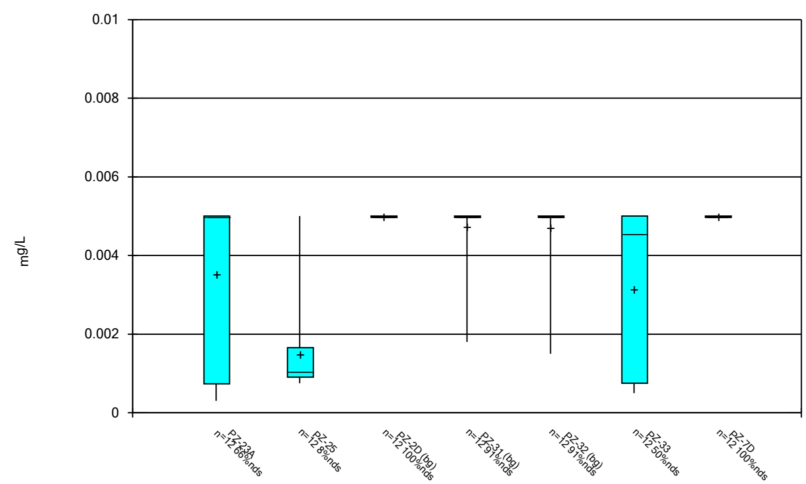
Box & Whiskers Plot



Constituent: Cobalt   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

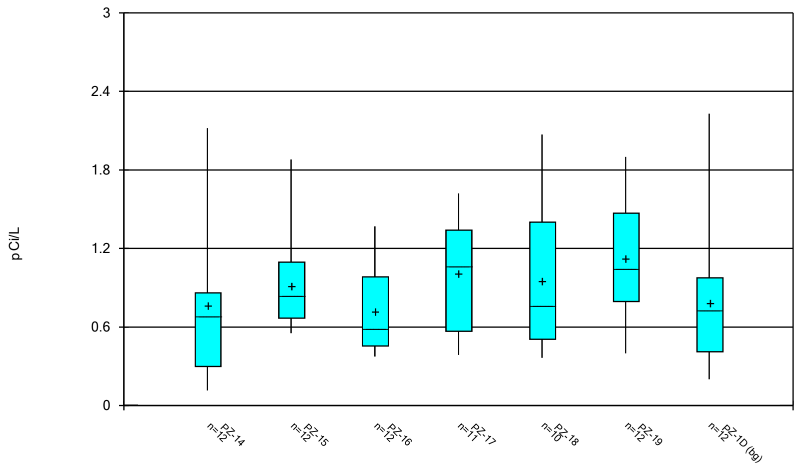
Box & Whiskers Plot



Constituent: Cobalt   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

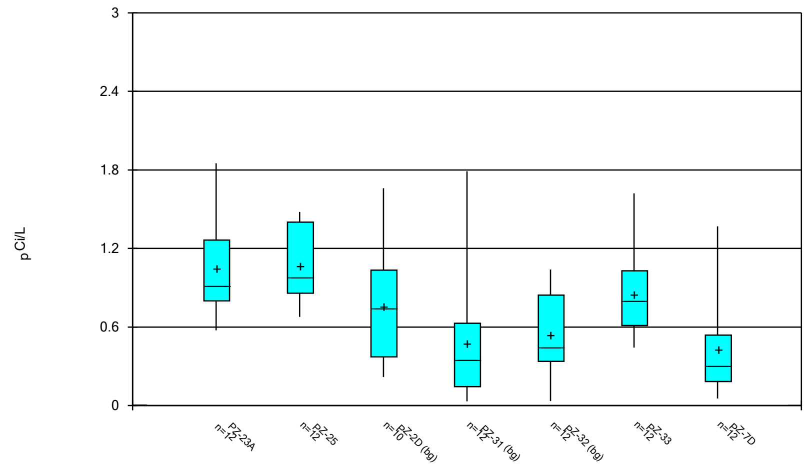
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

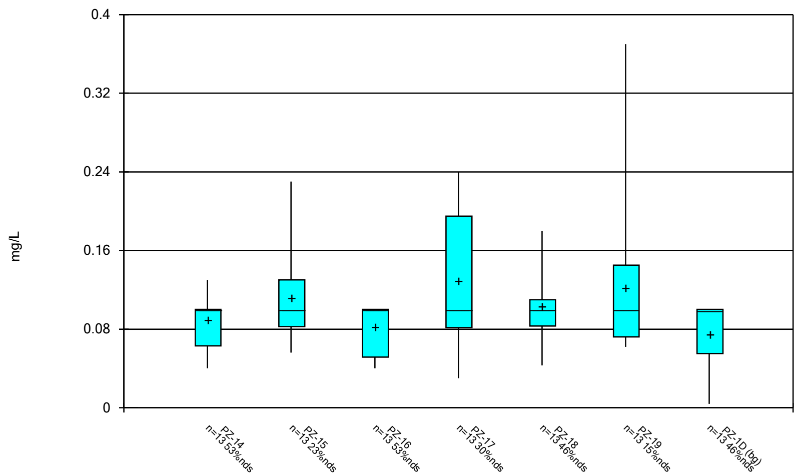
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

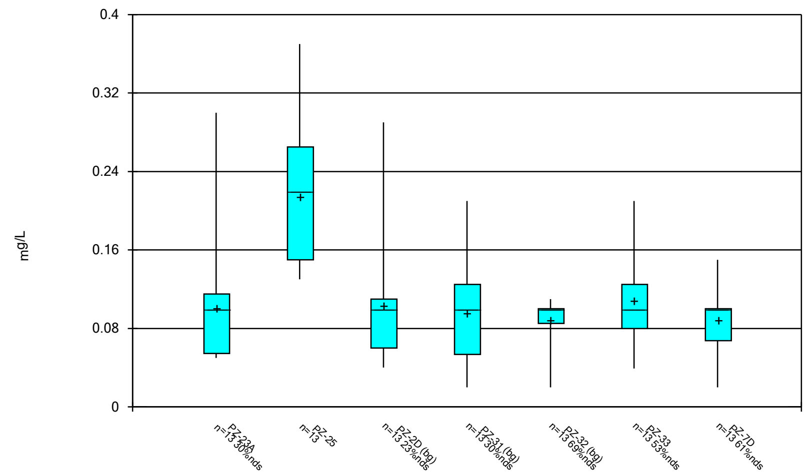
Box & Whiskers Plot



Constituent: Fluoride   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

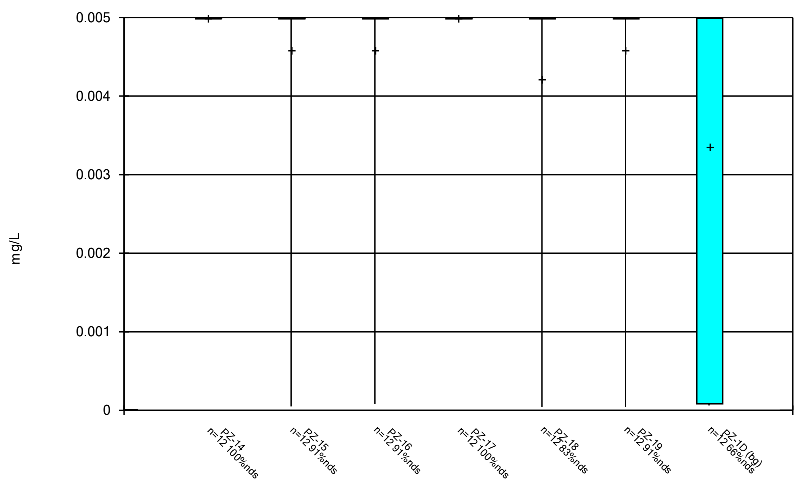
Box & Whiskers Plot



Constituent: Fluoride   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

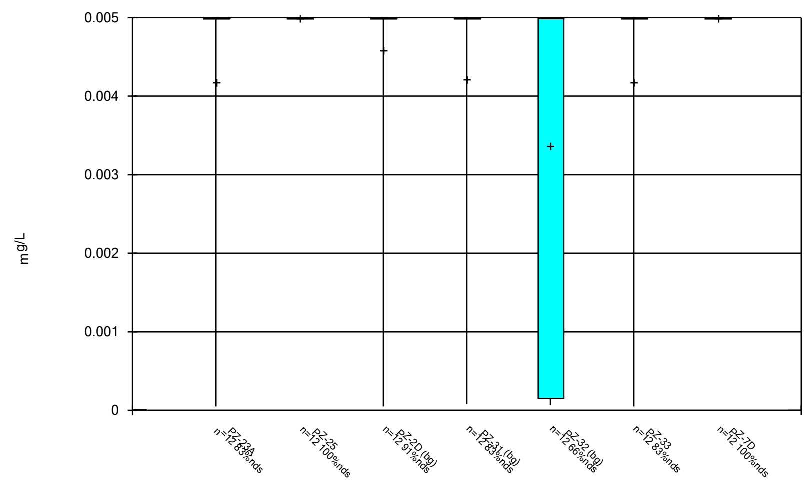
Box & Whiskers Plot



Constituent: Lead   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

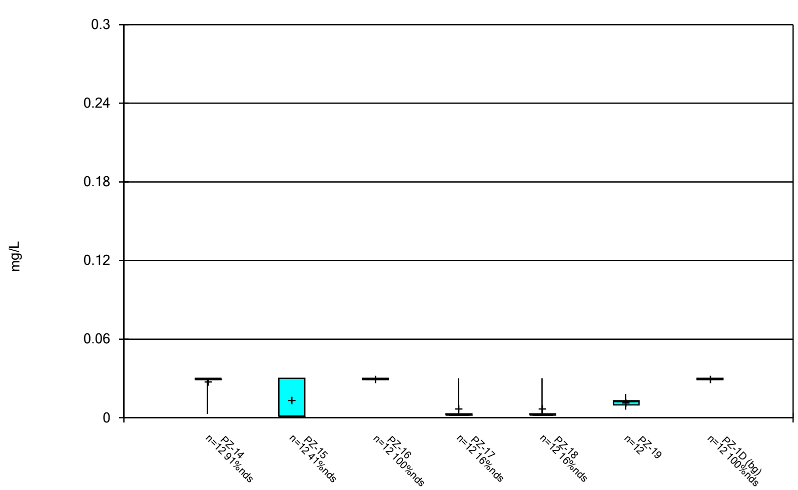
Box & Whiskers Plot



Constituent: Lead   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

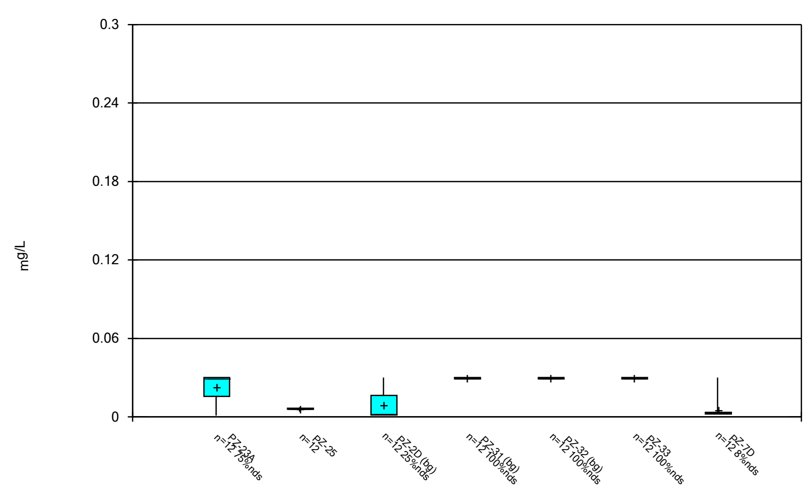
Box & Whiskers Plot



Constituent: Lithium   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

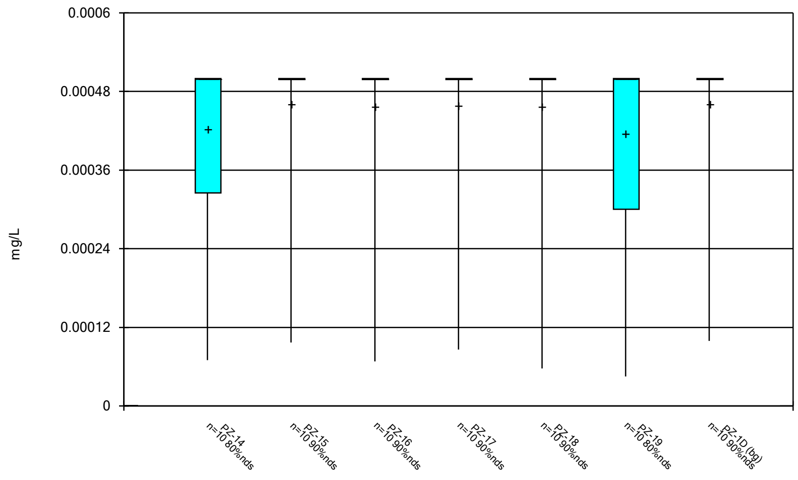
Box & Whiskers Plot



Constituent: Lithium   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

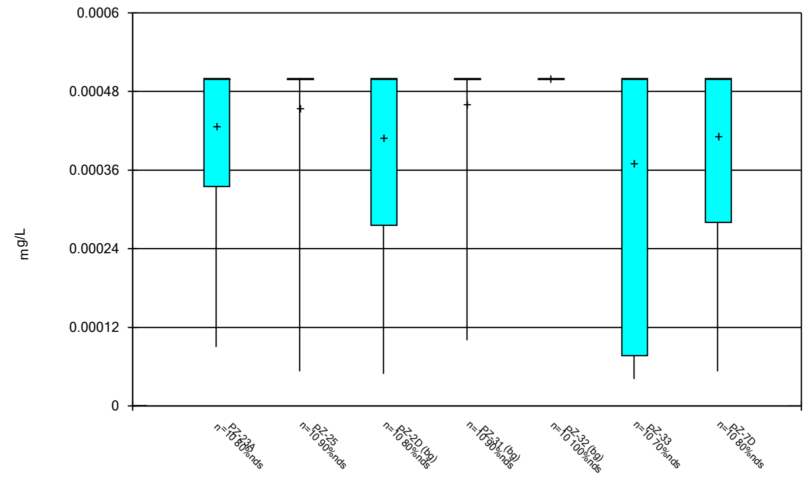
Box & Whiskers Plot



Constituent: Mercury   Analysis Run 12/8/2020 1:38 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

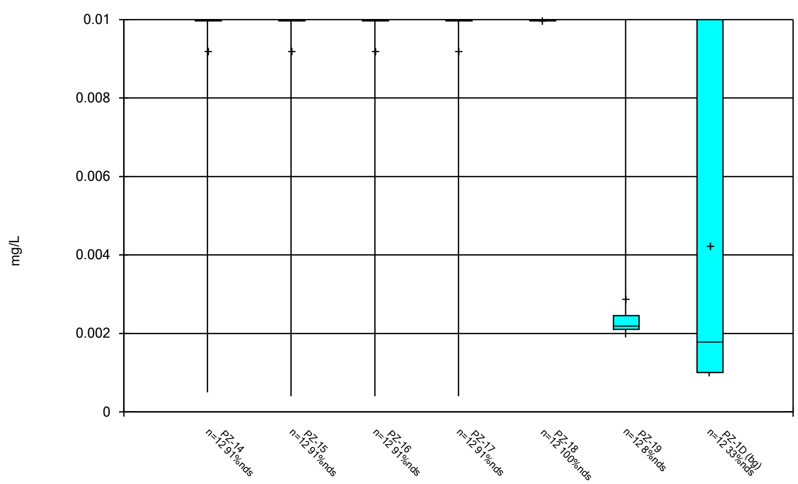
Box & Whiskers Plot



Constituent: Mercury   Analysis Run 12/8/2020 1:39 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

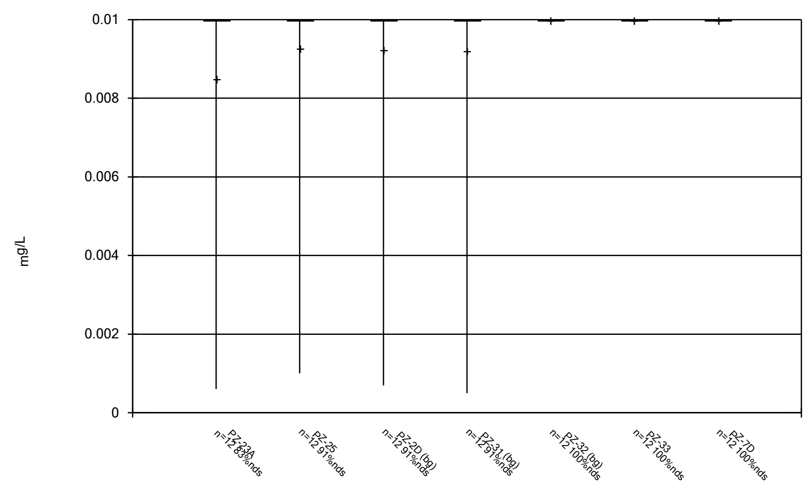
Box & Whiskers Plot



Constituent: Molybdenum   Analysis Run 12/8/2020 1:39 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

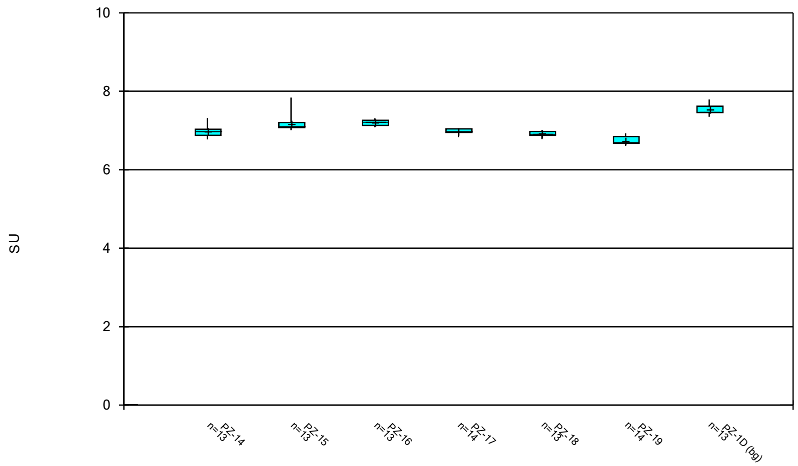
Box & Whiskers Plot



Constituent: Molybdenum   Analysis Run 12/8/2020 1:39 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

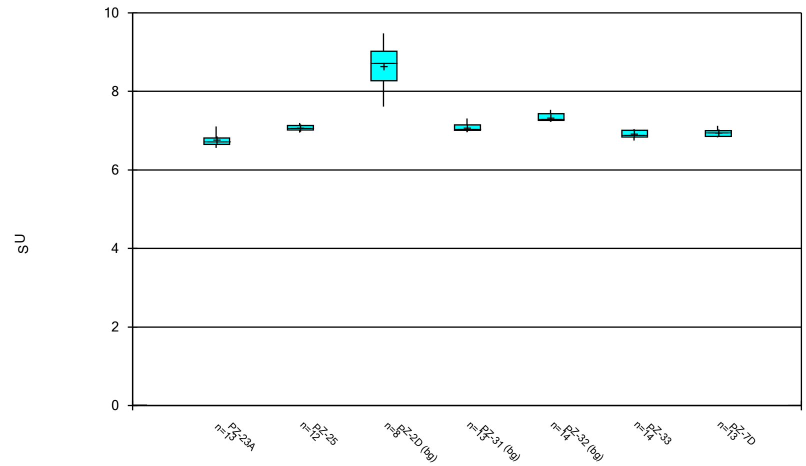
Box & Whiskers Plot



Constituent: pH   Analysis Run 12/8/2020 1:39 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

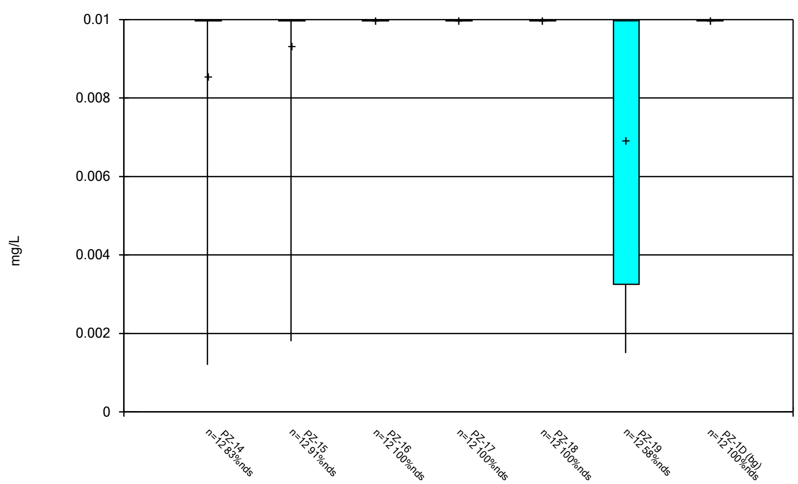
Box & Whiskers Plot



Constituent: pH   Analysis Run 12/8/2020 1:39 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

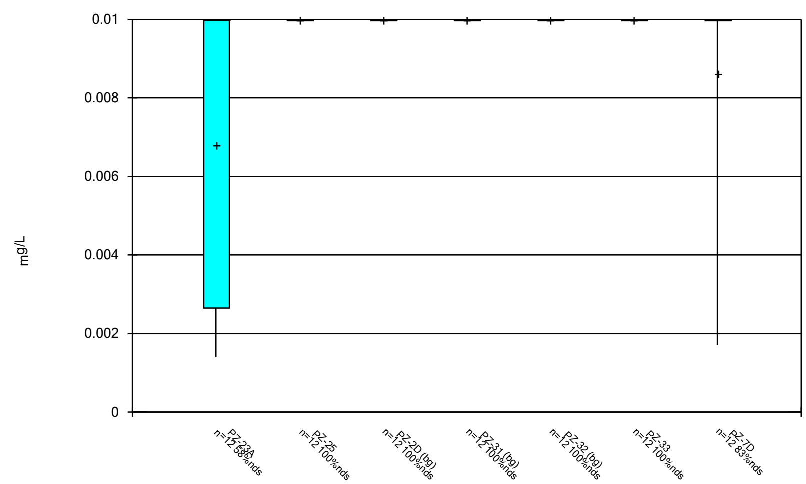
Box & Whiskers Plot



Constituent: Selenium   Analysis Run 12/8/2020 1:39 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

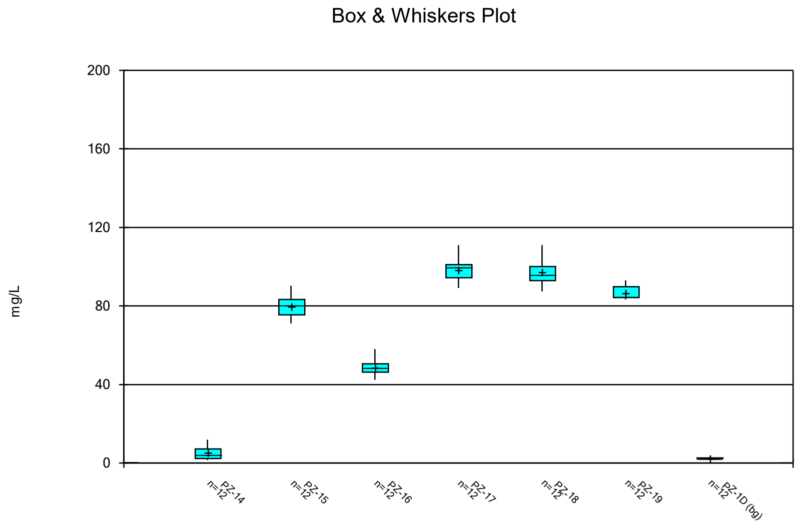
Sanitas™ v.9.6.27 . UG

Box & Whiskers Plot



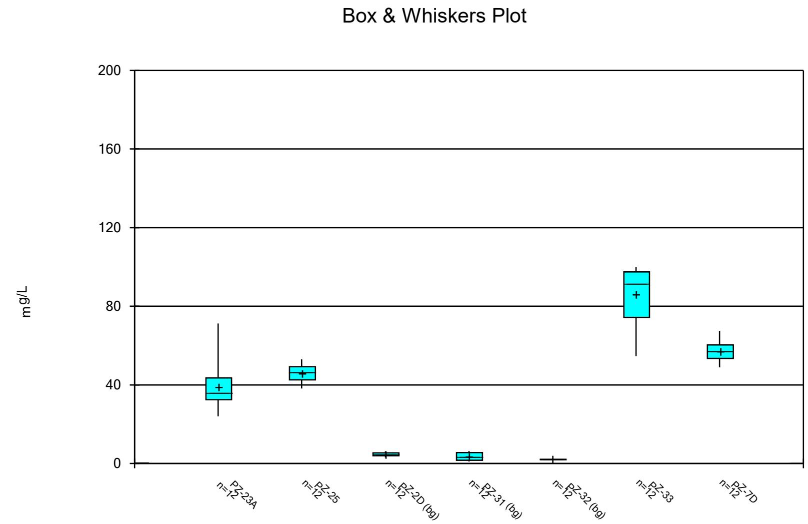
Constituent: Selenium   Analysis Run 12/8/2020 1:39 PM   View: Appendix III and IV
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



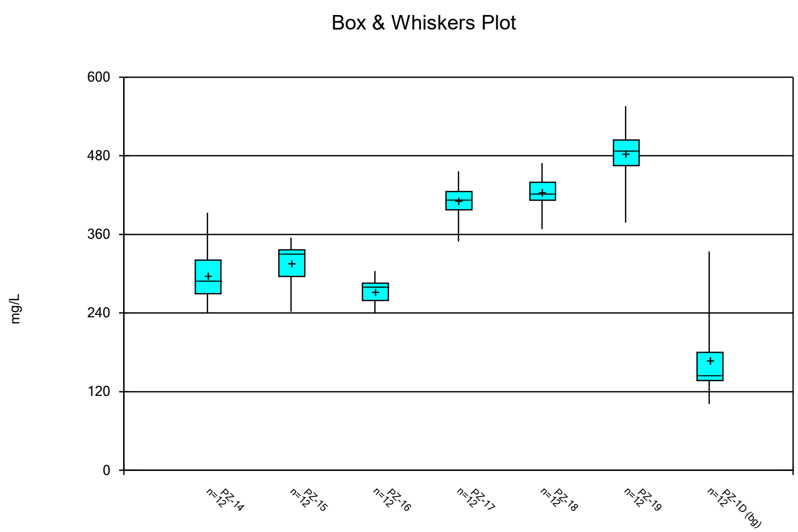
Constituent: Sulfate Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



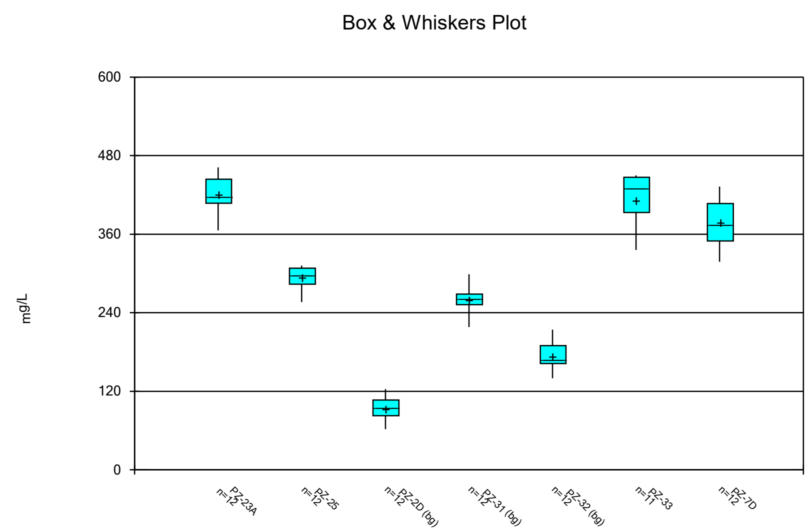
Constituent: Sulfate Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



Constituent: TDS Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

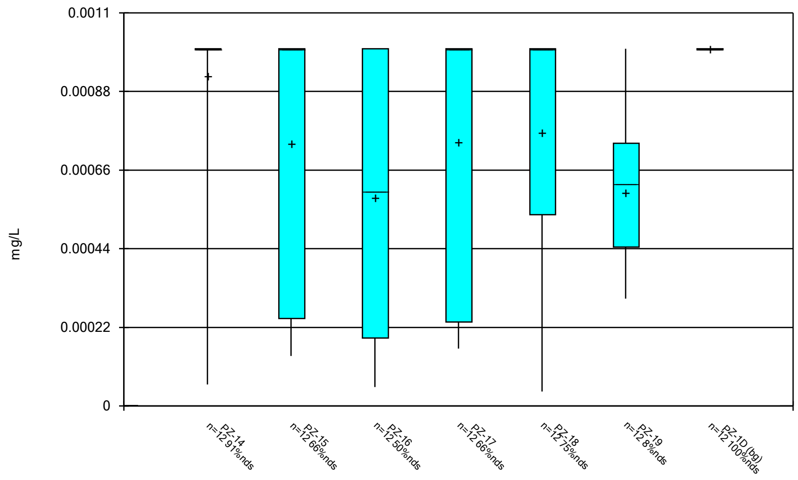
Sanitas™ v.9.6.27 . UG



Constituent: TDS Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

Box & Whiskers Plot

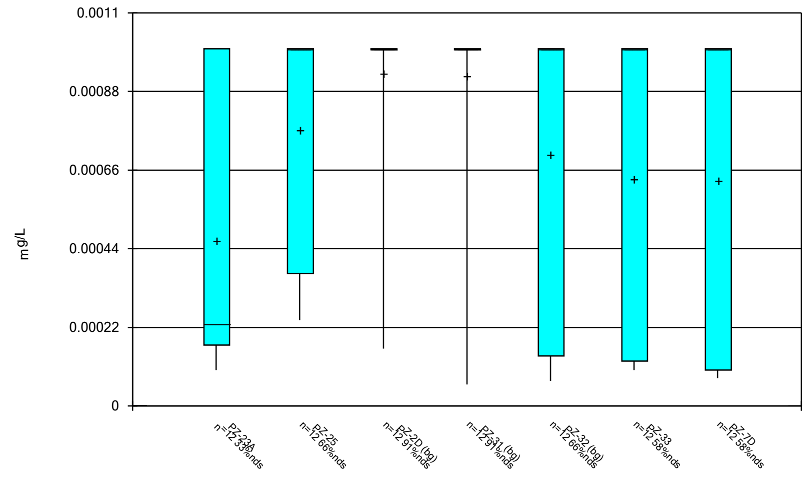


Constituent: Thallium   Analysis Run 12/8/2020 1:39 PM   View: Appendix III and IV

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

Box & Whiskers Plot



Constituent: Thallium   Analysis Run 12/8/2020 1:39 PM   View: Appendix III and IV

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 12/8/2020, 2:13 PM

	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.

Interwell Predicition Limit - Significant Results

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 12/8/2020, 1:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**PZ-15**	**0.02691**	**n/a**	**10/7/2020**	**0.19**	**Yes**	**48**	**4.167**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-16**	**0.02691**	**n/a**	**10/6/2020**	**0.19**	**Yes**	**48**	**4.167**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-17**	**0.02691**	**n/a**	**10/7/2020**	**0.3**	**Yes**	**48**	**4.167**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-18**	**0.02691**	**n/a**	**10/7/2020**	**0.39**	**Yes**	**48**	**4.167**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-19**	**0.02691**	**n/a**	**10/7/2020**	**0.52**	**Yes**	**48**	**4.167**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-23A**	**0.02691**	**n/a**	**10/6/2020**	**0.16**	**Yes**	**48**	**4.167**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-25**	**0.02691**	**n/a**	**10/7/2020**	**0.18**	**Yes**	**48**	**4.167**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-33**	**0.02691**	**n/a**	**10/7/2020**	**0.35**	**Yes**	**48**	**4.167**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-7D**	**0.02691**	**n/a**	**10/7/2020**	**0.2**	**Yes**	**48**	**4.167**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-18**	**119.9**	**n/a**	**10/7/2020**	**129**	**Yes**	**47**	**2.128**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-19**	**119.9**	**n/a**	**10/7/2020**	**144**	**Yes**	**47**	**2.128**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-23A**	**119.9**	**n/a**	**10/6/2020**	**144**	**Yes**	**47**	**2.128**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-15**	**4.705**	**n/a**	**10/7/2020**	**6.6**	**Yes**	**48**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-16**	**4.705**	**n/a**	**10/6/2020**	**6.4**	**Yes**	**48**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-17**	**4.705**	**n/a**	**10/7/2020**	**5.7**	**Yes**	**48**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-18**	**4.705**	**n/a**	**10/7/2020**	**5**	**Yes**	**48**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-23A**	**4.705**	**n/a**	**10/6/2020**	**7**	**Yes**	**48**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
pH (SU)	**PZ-18**	**9.48**	**6.96**	**10/7/2020**	**6.91**	**Yes**	**48**	**0**	**n/a**	**n/a**	**0.001612**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-19**	**9.48**	**6.96**	**10/7/2020**	**6.78**	**Yes**	**48**	**0**	**n/a**	**n/a**	**0.001612**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-23A**	**9.48**	**6.96**	**10/6/2020**	**6.78**	**Yes**	**48**	**0**	**n/a**	**n/a**	**0.001612**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-25**	**9.48**	**6.96**	**10/7/2020**	**6.95**	**Yes**	**48**	**0**	**n/a**	**n/a**	**0.001612**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**PZ-14**	**7.172**	**n/a**	**10/6/2020**	**11**	**Yes**	**48**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-15**	**7.172**	**n/a**	**10/7/2020**	**80.7**	**Yes**	**48**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-16**	**7.172**	**n/a**	**10/6/2020**	**42.4**	**Yes**	**48**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-17**	**7.172**	**n/a**	**10/7/2020**	**89.1**	**Yes**	**48**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-18**	**7.172**	**n/a**	**10/7/2020**	**87.3**	**Yes**	**48**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-19**	**7.172**	**n/a**	**10/7/2020**	**83.3**	**Yes**	**48**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-23A**	**7.172**	**n/a**	**10/6/2020**	**71.2**	**Yes**	**48**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-25**	**7.172**	**n/a**	**10/7/2020**	**38.1**	**Yes**	**48**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-33**	**7.172**	**n/a**	**10/7/2020**	**54.6**	**Yes**	**48**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-7D**	**7.172**	**n/a**	**10/7/2020**	**48.9**	**Yes**	**48**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-15**	**314**	**n/a**	**10/7/2020**	**336**	**Yes**	**48**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-17**	**314**	**n/a**	**10/7/2020**	**392**	**Yes**	**48**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-18**	**314**	**n/a**	**10/7/2020**	**425**	**Yes**	**48**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-19**	**314**	**n/a**	**10/7/2020**	**492**	**Yes**	**48**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-23A**	**314**	**n/a**	**10/6/2020**	**462**	**Yes**	**48**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-33**	**314**	**n/a**	**10/7/2020**	**337**	**Yes**	**48**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-7D**	**314**	**n/a**	**10/7/2020**	**334**	**Yes**	**48**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**

Interwell Predicition Limit - All Results

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 12/8/2020, 1:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-14	0.02691	n/a	10/6/2020	0.026J	No	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-15	0.02691	n/a	10/7/2020	0.19	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02691	n/a	10/6/2020	0.19	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02691	n/a	10/7/2020	0.3	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02691	n/a	10/7/2020	0.39	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02691	n/a	10/7/2020	0.52	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02691	n/a	10/6/2020	0.16	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02691	n/a	10/7/2020	0.18	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02691	n/a	10/7/2020	0.35	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02691	n/a	10/7/2020	0.2	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-14	119.9	n/a	10/6/2020	111	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-15	119.9	n/a	10/7/2020	93.5	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-16	119.9	n/a	10/6/2020	84	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-17	119.9	n/a	10/7/2020	112	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	119.9	n/a	10/7/2020	129	Yes	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	119.9	n/a	10/7/2020	144	Yes	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	119.9	n/a	10/6/2020	144	Yes	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-25	119.9	n/a	10/7/2020	84.2	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-33	119.9	n/a	10/7/2020	94.7	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-7D	119.9	n/a	10/7/2020	109	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-14	4.705	n/a	10/6/2020	4.4	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	4.705	n/a	10/7/2020	6.6	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-16	4.705	n/a	10/6/2020	6.4	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-17	4.705	n/a	10/7/2020	5.7	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.705	n/a	10/7/2020	5	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-19	4.705	n/a	10/7/2020	4.5	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-23A	4.705	n/a	10/6/2020	7	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-25	4.705	n/a	10/7/2020	1.8	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-33	4.705	n/a	10/7/2020	2	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-7D	4.705	n/a	10/7/2020	3.9	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	10/6/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	10/6/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	10/7/2020	0.064J	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	10/6/2020	0.052J	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	10/7/2020	0.13	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
pH (SU)	PZ-14	9.48	6.96	10/6/2020	7.01	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-15	9.48	6.96	10/7/2020	7.11	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-16	9.48	6.96	10/6/2020	7.24	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	10/7/2020	7.04	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	10/7/2020	6.91	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	10/7/2020	6.78	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	10/6/2020	6.78	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-25	9.48	6.96	10/7/2020	6.95	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	10/7/2020	7.04	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	10/7/2020	6.98	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	7.172	n/a	10/6/2020	11	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	7.172	n/a	10/7/2020	80.7	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	7.172	n/a	10/6/2020	42.4	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	7.172	n/a	10/7/2020	89.1	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	7.172	n/a	10/7/2020	87.3	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	7.172	n/a	10/7/2020	83.3	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	7.172	n/a	10/6/2020	71.2	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	7.172	n/a	10/7/2020	38.1	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	7.172	n/a	10/7/2020	54.6	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	7.172	n/a	10/7/2020	48.9	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-14	314	n/a	10/6/2020	241	No	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-15	314	n/a	10/7/2020	336	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-16	314	n/a	10/6/2020	261	No	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	314	n/a	10/7/2020	392	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	314	n/a	10/7/2020	425	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	314	n/a	10/7/2020	492	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	314	n/a	10/6/2020	462	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-25	314	n/a	10/7/2020	280	No	48	0	None	No	0.0007523	Param Inter 1 of 2

Interwell Predicition Limit - All Results

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 12/8/2020, 1:43 PM

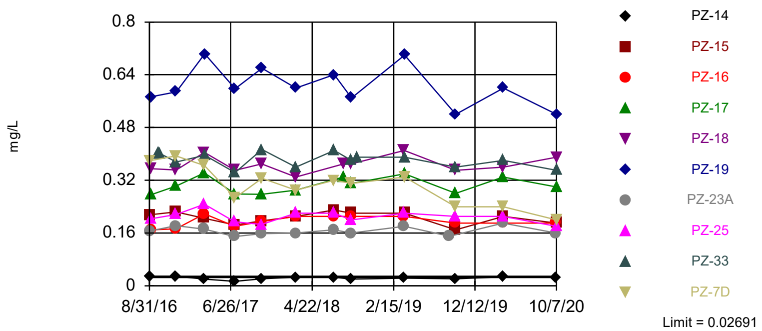
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	**PZ-33**	**314**	**n/a**	**10/7/2020**	**337**	**Yes**	**48**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-7D**	**314**	**n/a**	**10/7/2020**	**334**	**Yes**	**48**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**

Sanitas™ v.9.6.27 . UG

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=-4.326, Std. Dev.=0.3488, n=48, 4.167% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9553, critical = 0.929. Kappa = 2.039 (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 12/8/2020 1:41 PM View: Appendix III

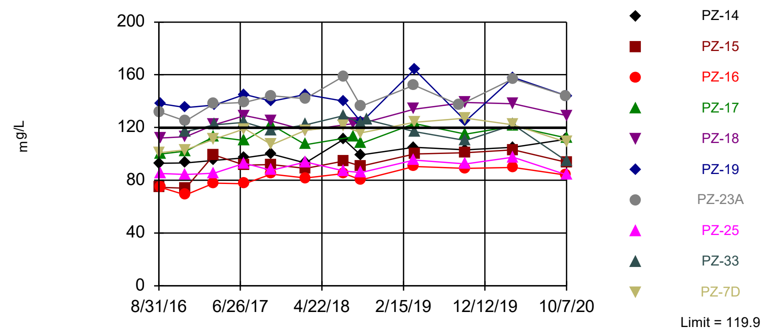
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

Exceeds Limit: PZ-18, PZ-19, PZ-23A

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=7.178, Std. Dev.=1.847, n=47, 2.128% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9324, critical = 0.928. Kappa = 2.042 (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 12/8/2020 1:41 PM View: Appendix III

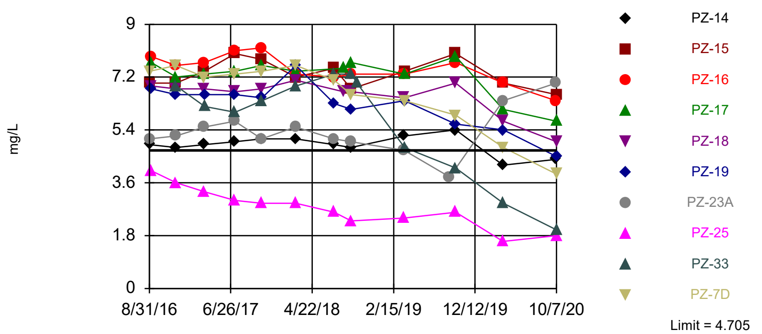
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

Exceeds Limit: PZ-15, PZ-16, PZ-17, PZ-18, PZ-23A

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=1.77, Std. Dev.=0.1957, n=48. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.936, critical = 0.929. Kappa = 2.039 (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 12/8/2020 1:41 PM View: Appendix III

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

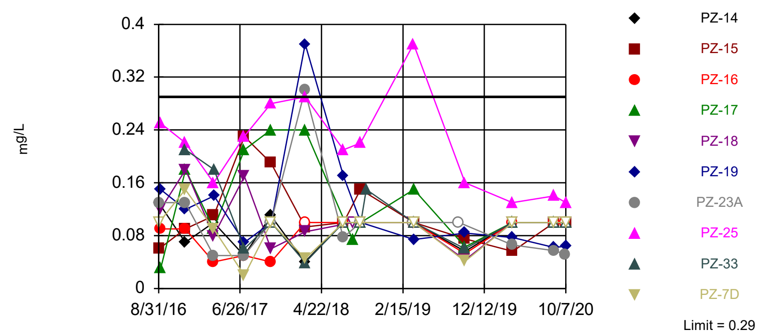
Sanitas™ v.9.6.27 . UG

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 52 background values. 42.31% NDs. Annual per-constituent alpha = 0.01367. Individual comparison alpha = 0.0006878 (1 of 2). Comparing 10 points to limit.

Constituent: Fluoride Analysis Run 12/8/2020 1:41 PM View: Appendix III

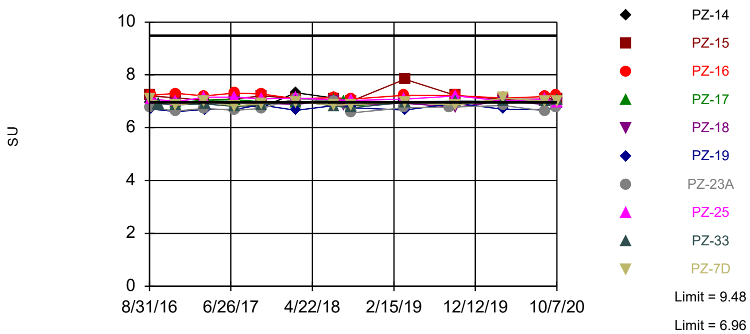
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

Exceeds Limits: PZ-18, PZ-19, PZ-23A, PZ-25

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 48 background values. Annual per-constituent alpha = 0.03199. Individual comparison alpha = 0.001612 (1 of 2). Comparing 10 points to limit.

Constituent: pH Analysis Run 12/8/2020 1:41 PM View: Appendix III

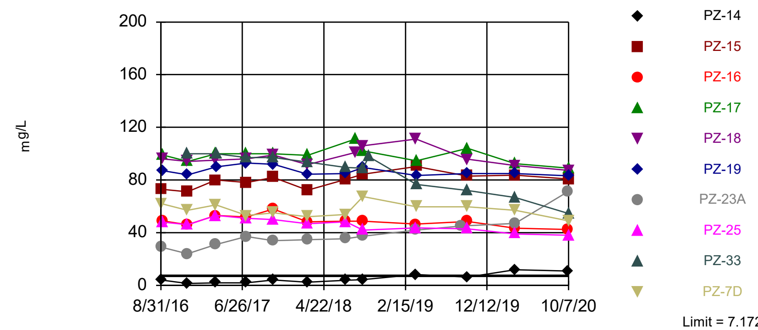
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

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 natural log transformation): Mean=1.046, Std. Dev.=0.4535, n=48. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9403, critical = 0.929. Kappa = 2.039 (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 12/8/2020 1:41 PM View: Appendix III

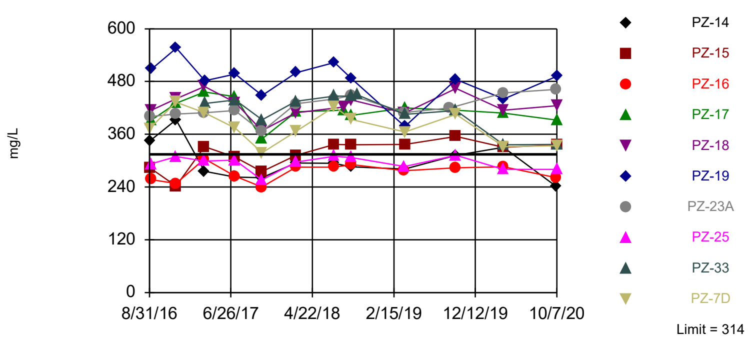
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

Exceeds Limit: PZ-15, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-33, PZ-7D

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=173.5, Std. Dev.=68.91, n=48. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9489, critical = 0.929. Kappa = 2.039 (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 12/8/2020 1:41 PM View: Appendix III

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III

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-19	PZ-17
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							0.355	0.573	0.276
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							0.351	0.588	0.303
3/21/2017	0.0082 (J)	0.0198 (J)	0.172						
3/22/2017				0.365	0.205	0.218	0.405		0.342
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		0.35	0.598	0.278
10/17/2017	0.0083 (J)								
10/18/2017		0.0212 (J)	0.158		0.197	0.195	0.37		0.277
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	0.33	0.6	0.29
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								0.57	0.31
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			0.7	0.34
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		0.39	0.52	0.3

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-31 (bg)	PZ-32 (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			0.0174 (J)	0.0156 (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			0.0116 (J)	0.0142 (J)	
10/18/2017	0.186				
10/19/2017		0.413			
2/20/2018			0.046 (J)	0.011 (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		0.011 (J)	0.016 (J)	
3/26/2020		0.38			
10/6/2020			0.011 (J)	0.015 (J)	0.018 (J)
10/7/2020	0.18	0.35			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III
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-19	PZ-17
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							112	138	100
9/8/2016									
10/18/2016									
12/6/2016	43.3								
12/7/2016		93.1	125	103	74	68.9			
12/8/2016							113	135	102
3/21/2017	44.1	95	138						
3/22/2017				111	99.3	77.8	122		113
3/23/2017								137	
7/11/2017	47.4	97.1	139			77.3			
7/12/2017				119	91.4		129	145	110
10/17/2017	48.7								
10/18/2017		100	144		92	84.7	125		122
10/19/2017				107				140	
2/20/2018	46.8	93.1	142						
2/21/2018				118	89	81.8	118	145	107
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								124	108
10/4/2018									
10/24/2018									
3/26/2019	43.3								
3/27/2019		105	152			90.5	134		
3/28/2019				124	100			164	123
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		129	144	112

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III
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	85.2				
10/18/2016		88.3	57.2		
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	86	59.7		
7/12/2017				124	
10/17/2017		91.6	64.9		
10/18/2017	87.6				
10/19/2017				118	
2/20/2018		86.5	64.1		
2/21/2018	93.9			122	
4/12/2018					<25
5/23/2018					17.6 (J)
6/13/2018					14.3
7/11/2018		95.4	60.4		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	95.8	66.6		
3/26/2020				122	
10/6/2020		98.8	62.8		22.7
10/7/2020	84.2			94.7	

Prediction Limit

Constituent: Chloride (mg/L)   Analysis Run 12/8/2020 1:43 PM   View: Appendix III

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	3.1								
8/31/2016		4.9	5.1						
9/1/2016				7.4	7				
9/6/2016						7.9			
9/7/2016							6.9	7.7	6.8
9/8/2016									
10/18/2016									
12/6/2016	3.4								
12/7/2016		4.8	5.2	7.6	7	7.6			
12/8/2016							6.8	7.2	6.6
3/21/2017	2.9	4.9	5.5						
3/22/2017				7.2	7.4	7.7	6.8	7.3	
3/23/2017									6.6
7/11/2017	3.4	5	5.7			8.1			
7/12/2017				7.3	8		6.7	7.4	6.6
10/17/2017	3.3								
10/18/2017		5.1	5.1		7.8	8.2	6.8	7.6	
10/19/2017				7.4					6.5
2/20/2018	3.3	5.1	5.5						
2/21/2018				7.6	7.2	7.3	7.1	7.4	7.6
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	2.9	4.9	5.1						
7/12/2018				7.1	7.5	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	6.6	6.8	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				6.4	7.4			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				4.8	7	7	5.7		5.4
10/6/2020	3	4.4	7			6.4			
10/7/2020				3.9	6.6		5	5.7	4.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III

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	4				
10/18/2016		3.5	4.5		
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	3.1	4.7		
7/12/2017				6	
10/17/2017		3	4.6		
10/18/2017	2.9				
10/19/2017				6.4	
2/20/2018		3	4.4		
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		2.8	4		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	2.2	3		
3/26/2020				2.9	
10/6/2020		2.3	3.4		2.3
10/7/2020	1.8			2	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III

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	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							0.03 (J)	0.12 (J)	0.15 (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							0.18 (J)	0.18 (J)	0.12 (J)
3/21/2017	0.004 (J)	<0.1	0.05 (J)						
3/22/2017				0.11 (J)	0.09 (J)	0.04 (J)	0.09 (J)	0.08 (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)		0.21 (J)	0.17 (J)	0.07 (J)
10/17/2017	<0.1								
10/18/2017		0.11 (J)	<0.1	0.19 (J)		0.04 (J)	0.24 (J)	0.06 (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	0.24 (J)	0.086 (J)	0.37
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		0.15		0.074
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)			0.043 (X)	0.084 (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		<0.1	0.077 (J)
8/25/2020	<0.1								
8/26/2020		<0.1	0.057 (J)	<0.1	<0.1	<0.1	<0.1		0.062 (J)
8/27/2020								<0.1	
10/6/2020	<0.1	<0.1	0.052 (J)			<0.1			
10/7/2020				<0.1	<0.1		<0.1	<0.1	0.064 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III

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	0.25 (J)				
10/18/2016		0.11 (J)	0.16 (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)	0.02 (J)	0.06 (J)		
7/12/2017				0.06 (J)	
10/17/2017		<0.1	0.05 (J)		
10/18/2017	0.28 (J)				
10/19/2017				<0.1	
2/20/2018		<0.1	0.21 (J)		
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		<0.1	0.087 (J)		<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	

Prediction Limit

Constituent: pH (SU)   Analysis Run 12/8/2020 1:43 PM   View: Appendix III

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-19	PZ-18	PZ-17
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							6.71	6.92	7.02
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							6.61	6.9	6.95
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		6.69	6.95	7.06
10/17/2017	7.7								
10/18/2017		6.77	6.73		7.2	7.28	6.88		6.99
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	6.66	6.89	6.95
7/11/2018	7.48	7.12	7						
7/12/2018				6.85	7.07	7.14	6.84	7.01	7.06
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							6.76		6.83
3/26/2019	7.49								
3/27/2019		6.98	6.75			7.23		6.92	
3/28/2019				6.96	7.84		6.67		6.97
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			6.93	6.78	
3/24/2020	7.79								
3/25/2020		7.02	6.84						6.93
3/26/2020				7.12	7.08	7.12	6.7	7.01	
8/25/2020	7.49								
8/26/2020		6.98	6.64	7.01	7.08	7.18	6.68		6.98
8/27/2020								6.88	
10/6/2020	7.35	7.01	6.78			7.24			
10/7/2020				6.98	7.11		6.78	6.91	7.04

Prediction Limit

Constituent: pH (SU) Analysis Run 12/8/2020 1:43 PM View: Appendix III
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			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III

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	2.1								
8/31/2016		4.1	29						
9/1/2016				62	73				
9/6/2016						49			
9/7/2016							96	99	87
9/8/2016									
10/18/2016									
12/6/2016	2.4								
12/7/2016		1.5	24	57	71	46			
12/8/2016							94	94	84
3/21/2017	2.5	2	31						
3/22/2017				61	80	53	95	100	
3/23/2017									90
7/11/2017	2.6	2	37			52			
7/12/2017				53	78		96	100	93
10/17/2017	2.5								
10/18/2017		4.2	34		82	58	99	100	
10/19/2017				55					92
2/20/2018	2.3	2.4	34.7						
2/21/2018				52.1	72.2	48.2	91.8	98.8	84.5
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	2.5	3.8	35.4						
7/12/2018				53.9	80.5	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	67.5	84.4	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				59.6	90.3			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				57.1	83.6	43.5	91		84.9
10/6/2020	2.4	11	71.2			42.4			
10/7/2020				48.9	80.7		87.3	89.1	83.3

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III
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	48				
10/18/2016		2.3	2.2		
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	1.8	4.8		
7/12/2017				97	
10/17/2017		1.9	6.4		
10/18/2017	50				
10/19/2017				97	
2/20/2018		2.1	5.2		
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		2	3.6		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	1.9	1.5		
3/26/2020				66.6	
10/6/2020		1.9	0.98 (J)		3.1
10/7/2020	38.1			54.6	

Prediction Limit

Constituent: TDS (mg/L)   Analysis Run 12/8/2020 1:43 PM   View: Appendix III

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-19	PZ-17
8/30/2016	136								
8/31/2016		344	400						
9/1/2016				373	284				
9/6/2016						257			
9/7/2016							415	508	392
9/8/2016									
10/18/2016									
12/6/2016	207								
12/7/2016		393	406	433	242	248			
12/8/2016							441	556	431
3/21/2017	128	276	409						
3/22/2017				409	332	304	469		456
3/23/2017								482	
7/11/2017	138	263	414			265			
7/12/2017				374	308		432	497	445
10/17/2017	101								
10/18/2017		261	366		275	240	368		349
10/19/2017				318				448	
2/20/2018	138	295	429						
2/21/2018				367	312	285	409	500	411
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	153	294	440						
7/12/2018				423	337	285		523	
8/15/2018							422		
8/16/2018									415
8/17/2018									
9/12/2018	146	286							
9/13/2018			448	394	336	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				365	337			378	420
9/10/2019			420						
10/1/2019	146								
10/2/2019		312			355	284			415
10/3/2019				405			464	485	
3/24/2020	228								
3/25/2020		330	454						408
3/26/2020				332	330	286	415	440	
10/6/2020	153	241	462			261			
10/7/2020				334	336		425	492	392

Prediction Limit

Constituent: TDS (mg/L)   Analysis Run 12/8/2020 1:43 PM   View: Appendix III
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	

FIGURE E.

Trend Test - Significant Results

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 12/8/2020, 1:49 PM

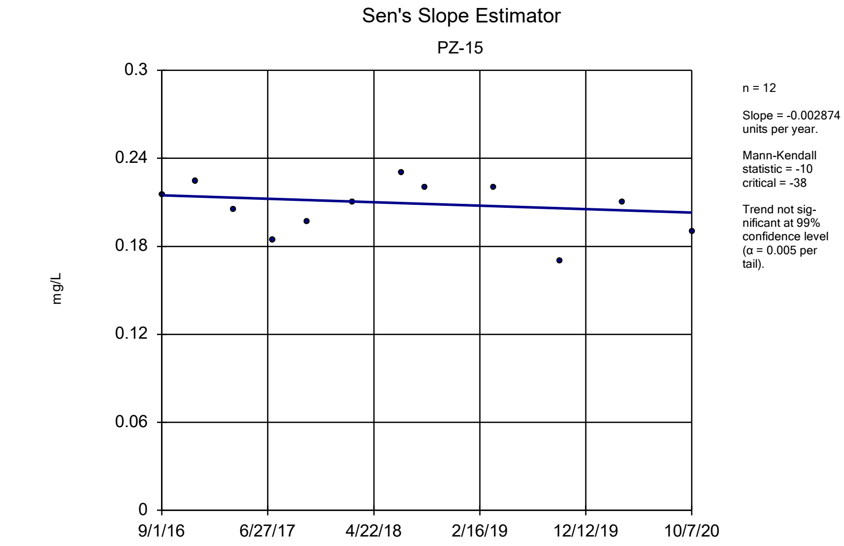
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**PZ-7D**	**-0.04195**	**-41**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**5.393**	**40**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-31 (bg)**	**-0.4113**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-14**	**1.958**	**47**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-23A**	**5.866**	**58**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-3.585**	**-42**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-31 (bg)**	**-1.363**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-33**	**-10.95**	**-54**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**PZ-23A**	**15.05**	**44**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Test - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 1:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-15	-0.002874	-10	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0.001543	9	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-17	0.004918	15	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-18	0.003211	10	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.01512	-10	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.0000869	1	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-23A	0	1	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.002074	-10	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-2D (bg)	0	-3	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-31 (bg)	-0.001685	-23	-38	No	12	8.333	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	-0.0005995	-7	-38	No	12	8.333	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-33	-0.006909	-28	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-7D**	**-0.04195**	**-41**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**5.393**	**40**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-19	1.884	14	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-1D (bg)	1.69	27	34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-23A	5.176	29	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	4.25	20	38	No	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-31 (bg)	2.303	33	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-32 (bg)	1.918	24	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.09612	-7	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-16	-0.2544	-32	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-17	-0.09058	-7	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-18	-0.1529	-32	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-1D (bg)	-0.05102	-12	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-23A	0	-2	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	0	-6	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-31 (bg)**	**-0.4113**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-32 (bg)	-0.2351	-31	-38	No	12	0	n/a	n/a	0.01	NP
pH (SU)	PZ-18	-0.01121	-14	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.009125	10	48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	PZ-1D (bg)	-0.0333	-22	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.014	12	43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-25	-0.01978	-17	-38	No	12	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.2188	-8	-21	No	8	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	-0.001297	-4	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	-0.006728	-8	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-14**	**1.958**	**47**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-15	2.592	34	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-16	-2.14	-32	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-17	-0.8819	-7	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-18	-0.07746	-3	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-19	-0.9091	-21	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-1D (bg)	0.1329	22	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-23A**	**5.866**	**58**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-3.585**	**-42**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-2D (bg)	-0.8052	-26	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-31 (bg)**	**-1.363**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-32 (bg)	0.03898	11	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-33**	**-10.95**	**-54**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-7D	-1.28	-13	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-15	17.51	34	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-17	-7.105	-14	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-18	-1.308	-3	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-19	-11.97	-22	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-1D (bg)	6.855	27	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	**PZ-23A**	**15.05**	**44**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	PZ-2D (bg)	16.45	20	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-31 (bg)	-0.1691	-1	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-32 (bg)	2.604	13	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-33	-18.86	-12	-34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-7D	-11.45	-20	-38	No	12	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.27 . UG



Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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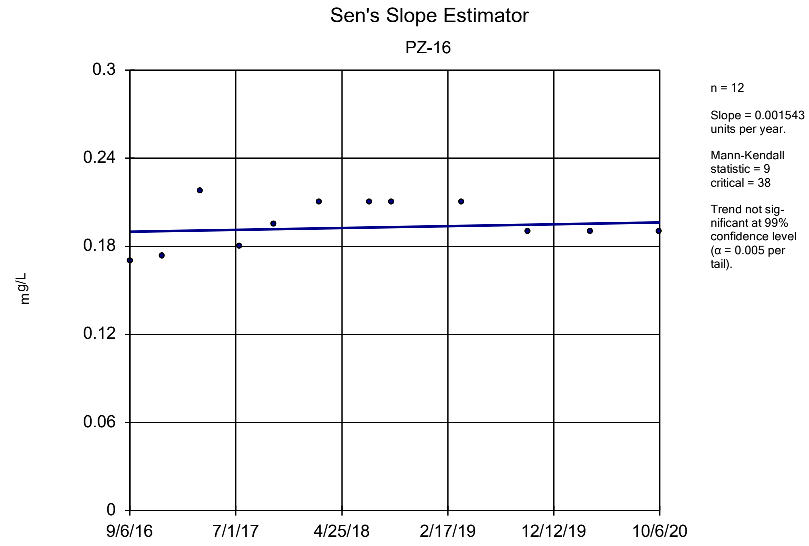

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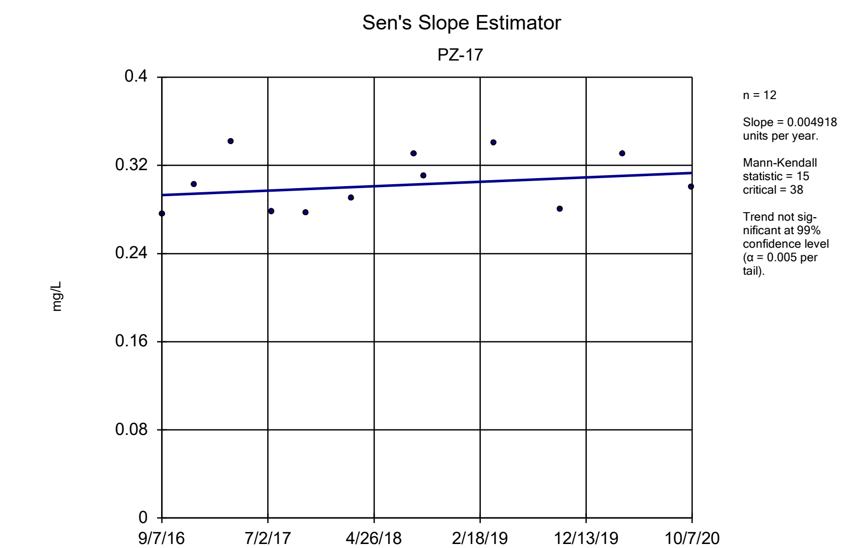
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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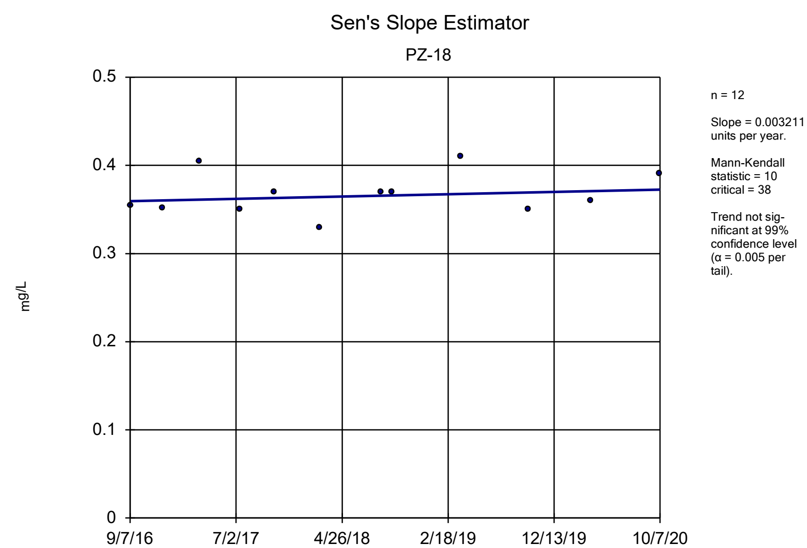

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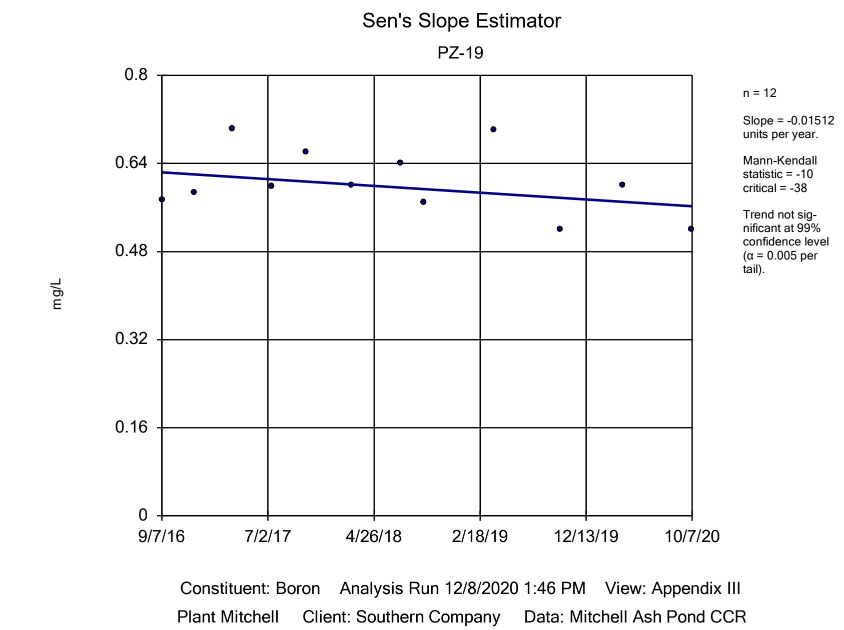
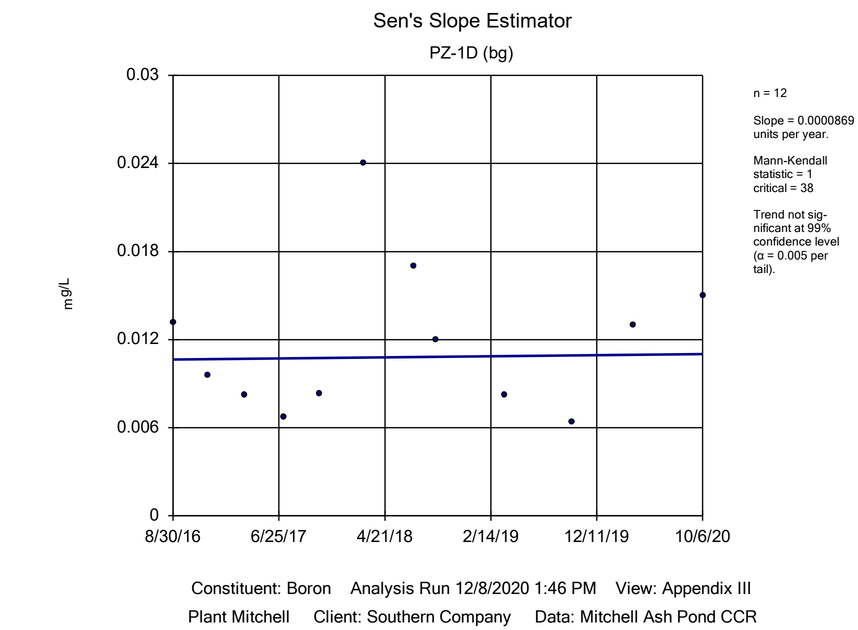
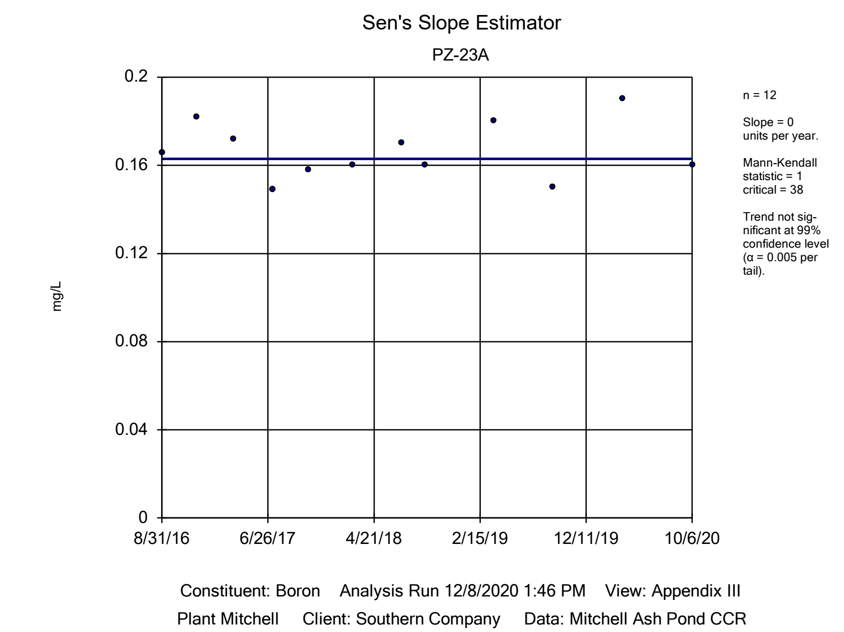
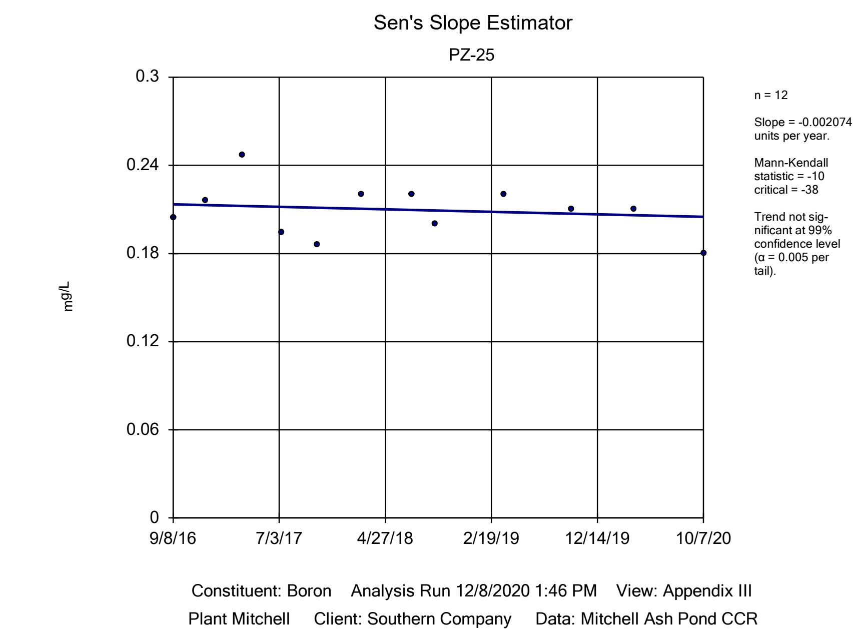
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sen's Slope Estimator
PZ-19
mg/L
0.8
0.64
0.48
0.32
0.16
0
9/7/16
7/2/17
4/26/18
2/18/19
12/13/19
10/7/20
n = 12
Slope = -0.01512 units per year.
Mann-Kendall statistic = -10 critical = -38
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sen's Slope Estimator
PZ-1D (bg)
mg/L
0.03
0.024
0.018
0.012
0.006
0
8/30/16
6/25/17
4/21/18
2/14/19
12/11/19
10/6/20
n = 12
Slope = 0.0000869 units per year.
Mann-Kendall statistic = 1 critical = 38
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

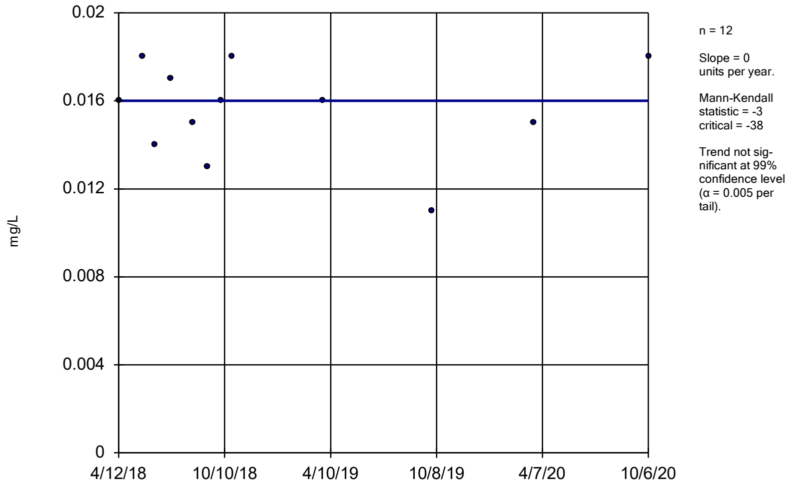

Sen's Slope Estimator
PZ-23A
mg/L
0.2
0.16
0.12
0.08
0.04
0
8/31/16
6/26/17
4/21/18
2/15/19
12/11/19
10/6/20
n = 12
Slope = 0 units per year.
Mann-Kendall statistic = 1 critical = 38
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sen's Slope Estimator
PZ-25
mg/L
0.3
0.24
0.18
0.12
0.06
0
9/8/16
7/3/17
4/27/18
2/19/19
12/14/19
10/7/20
n = 12
Slope = -0.002074 units per year.
Mann-Kendall statistic = -10 critical = -38
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

Sen's Slope Estimator

PZ-2D (bg)

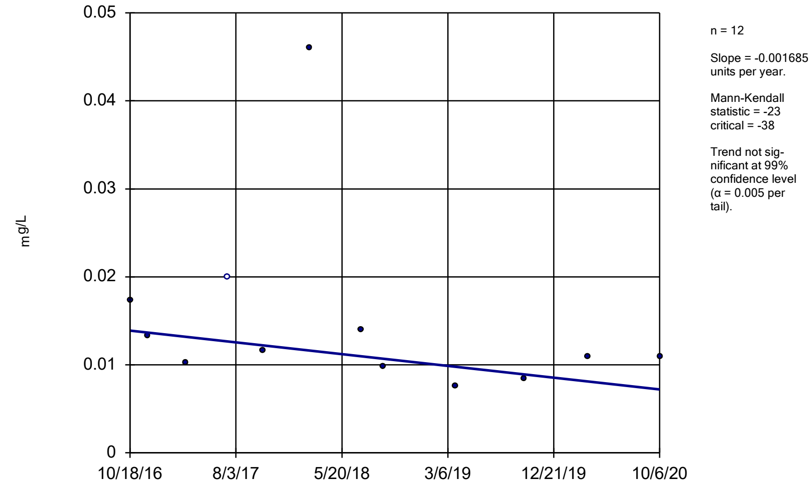


Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-31 (bg)

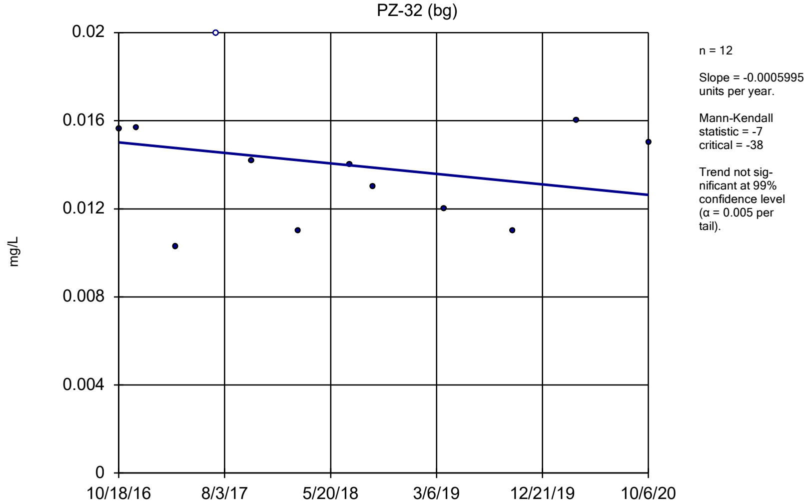


Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-32 (bg)

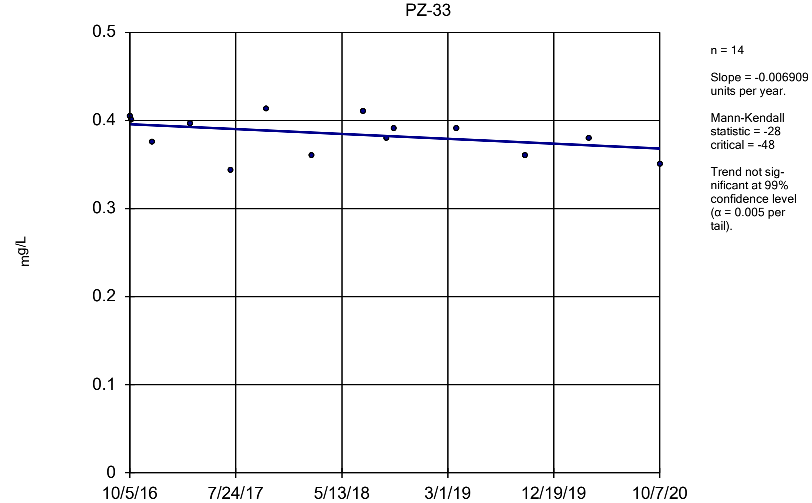


Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

Sen's Slope Estimator

PZ-33



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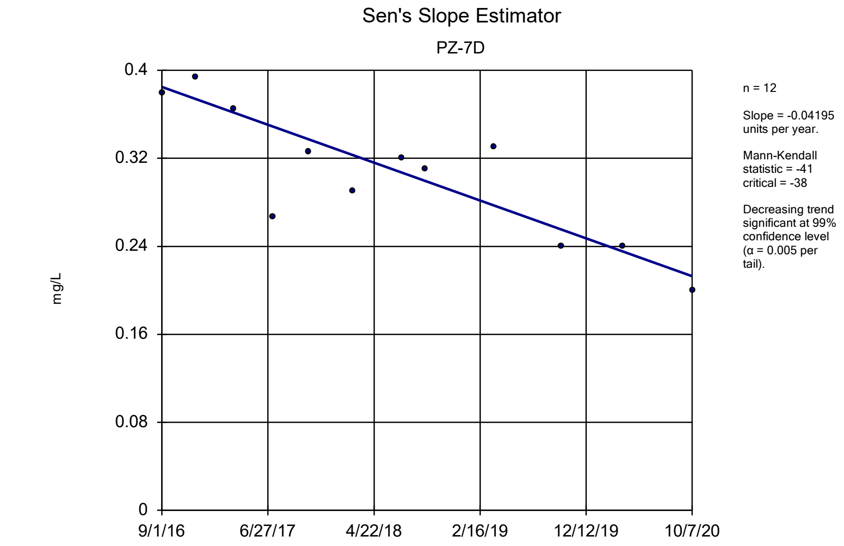
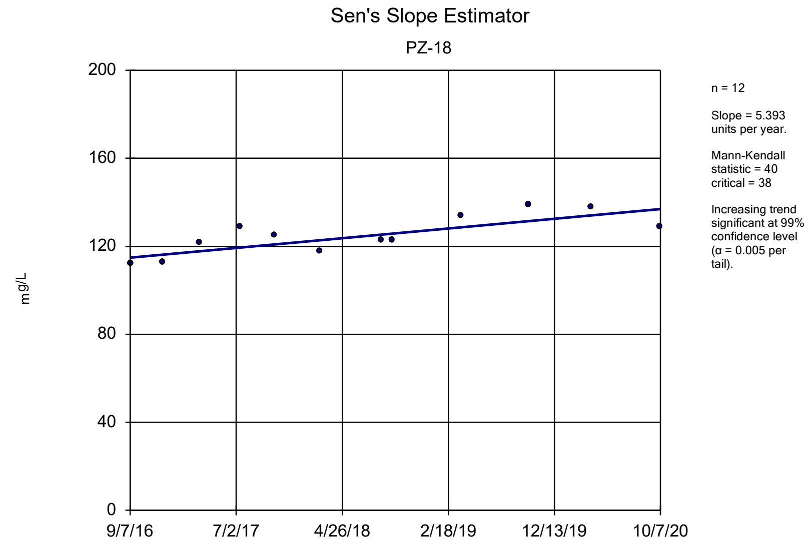
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



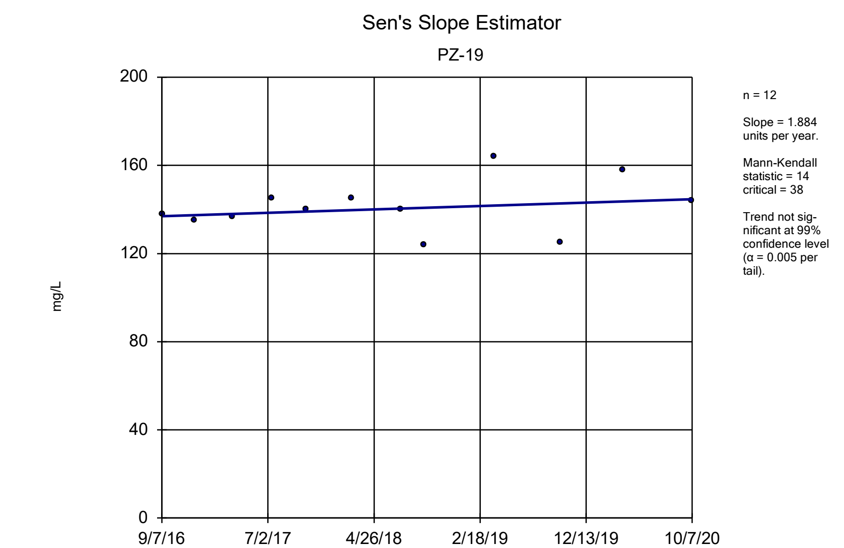
Constituent: Boron Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



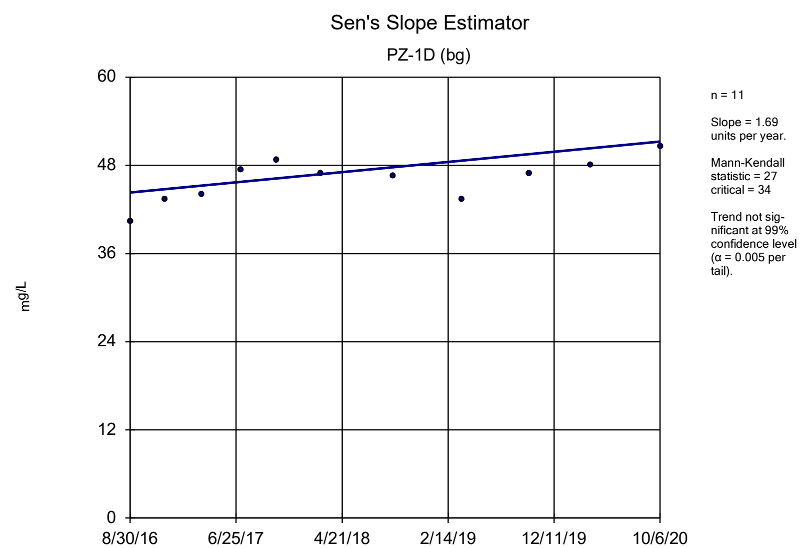
Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



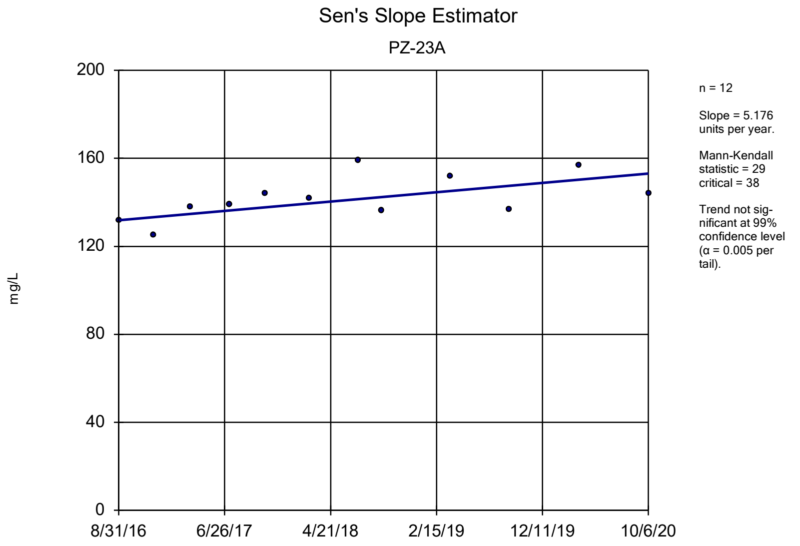
Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



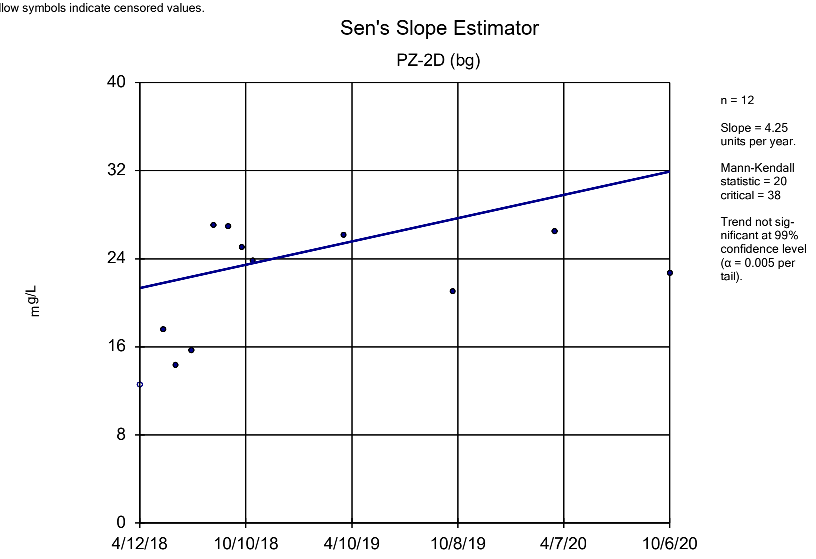
Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



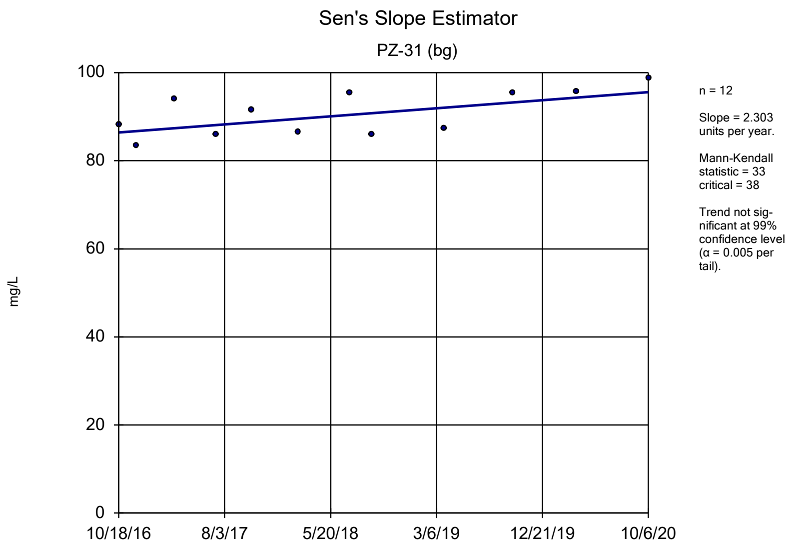
Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values.



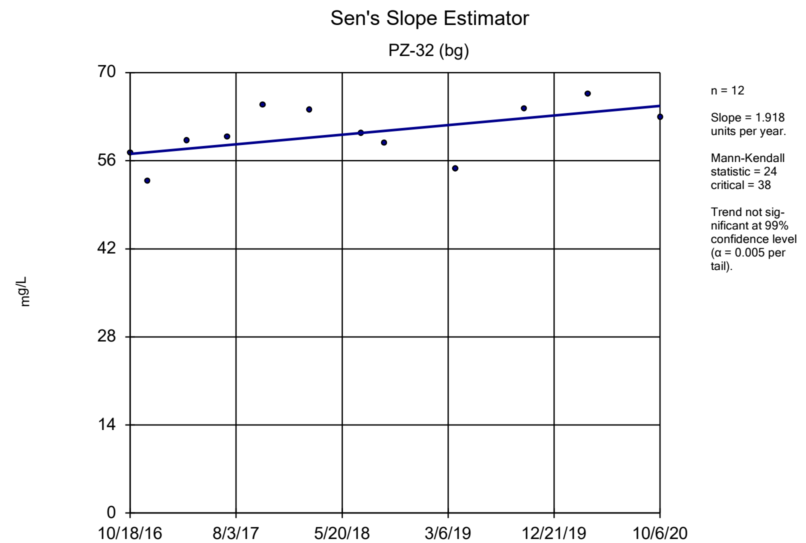
Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



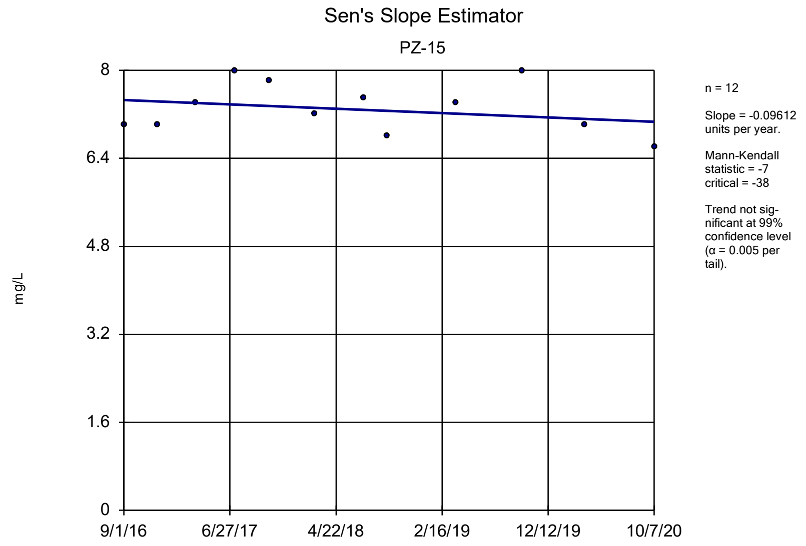
Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



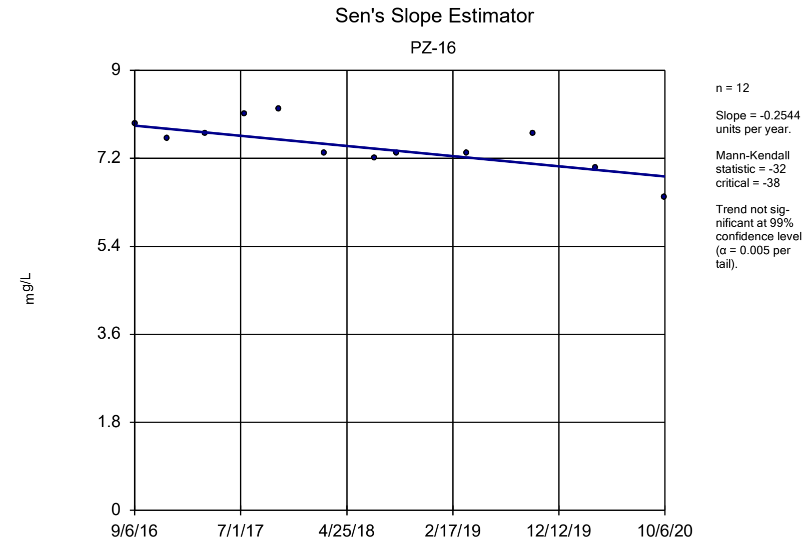
Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



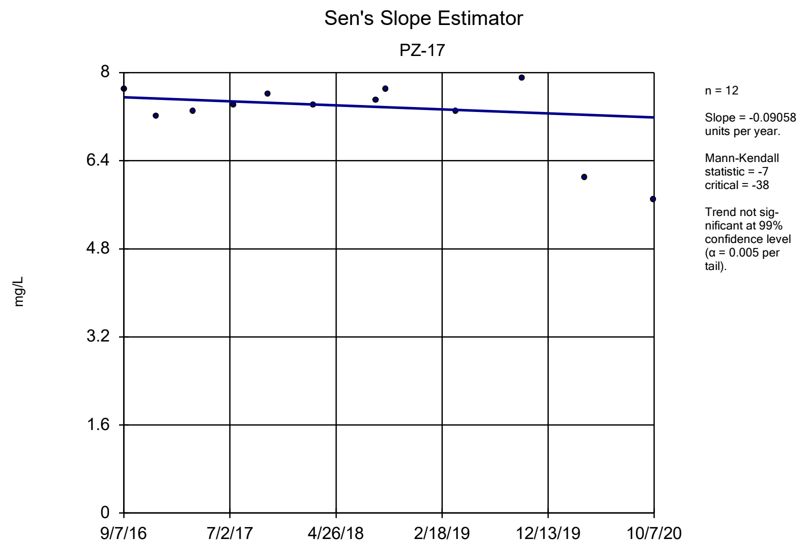
Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



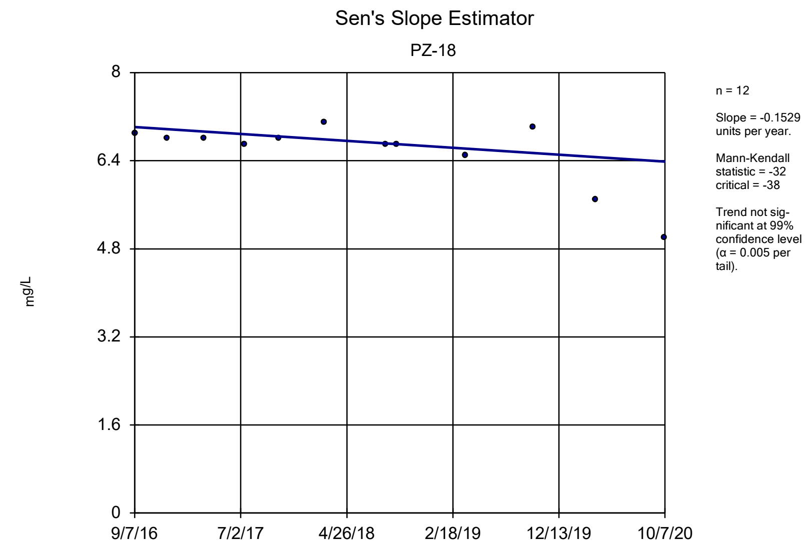
Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

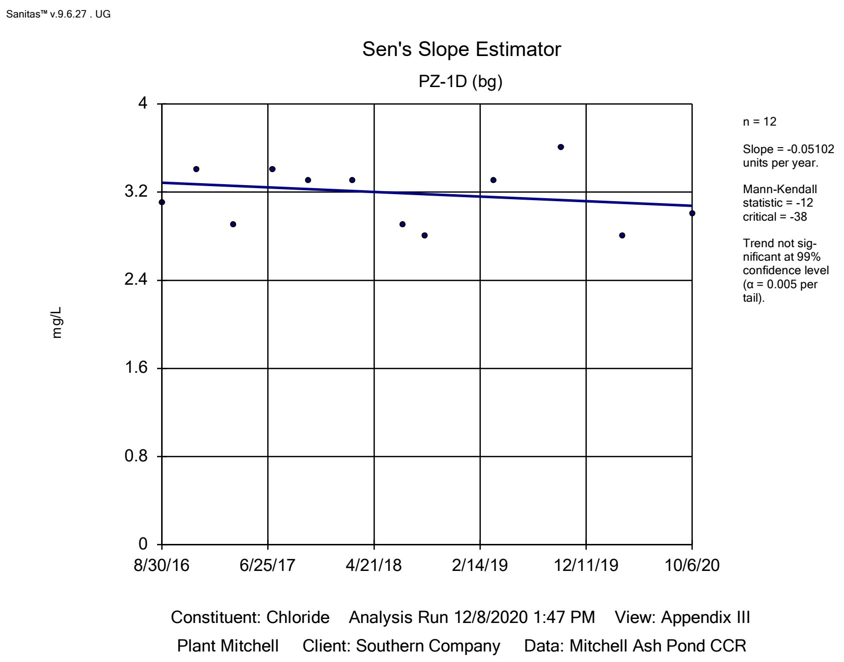


Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

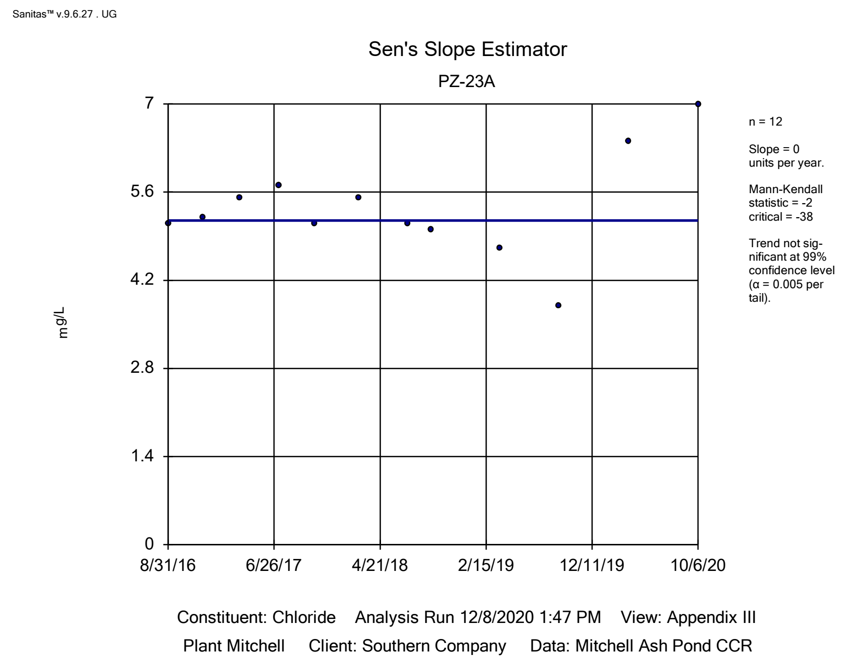
Sanitas™ v.9.6.27 . UG



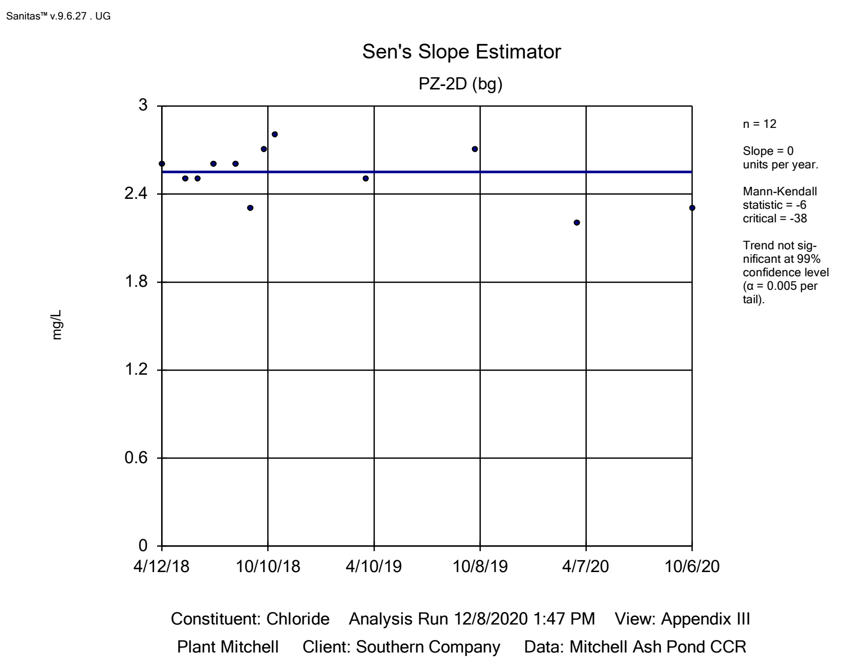
Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



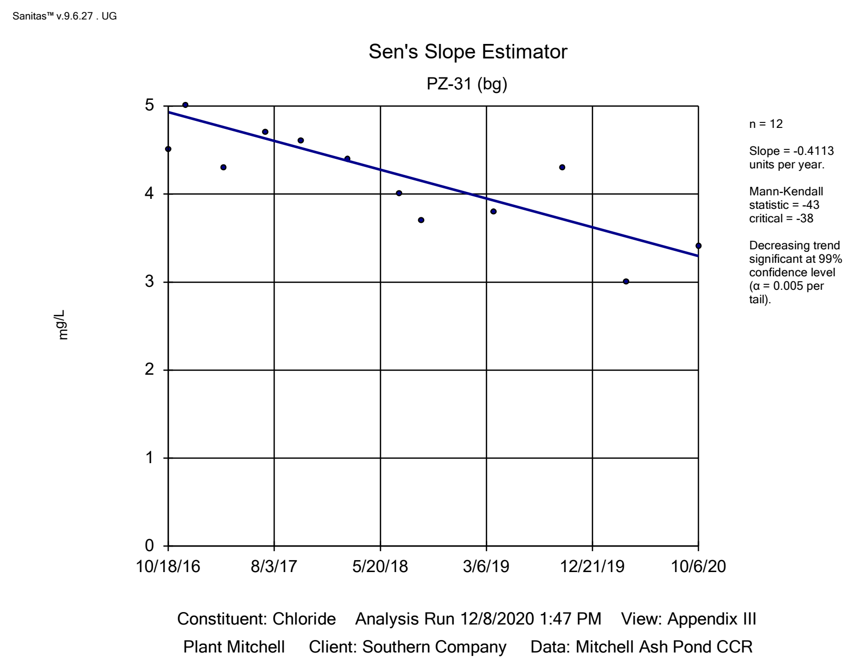
Sanitas™ v.9.6.27 . UG
Sen's Slope Estimator
PZ-1D (bg)
mg/L
4
3.2
2.4
1.6
0.8
0
8/30/16
6/25/17
4/21/18
2/14/19
12/11/19
10/6/20
n = 12
Slope = -0.05102 units per year.
Mann-Kendall statistic = -12 critical = -38
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Sanitas™ v.9.6.27 . UG
Sen's Slope Estimator
PZ-23A
mg/L
7
5.6
4.2
2.8
1.4
0
8/31/16
6/26/17
4/21/18
2/15/19
12/11/19
10/6/20
n = 12
Slope = 0 units per year.
Mann-Kendall statistic = -2 critical = -38
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

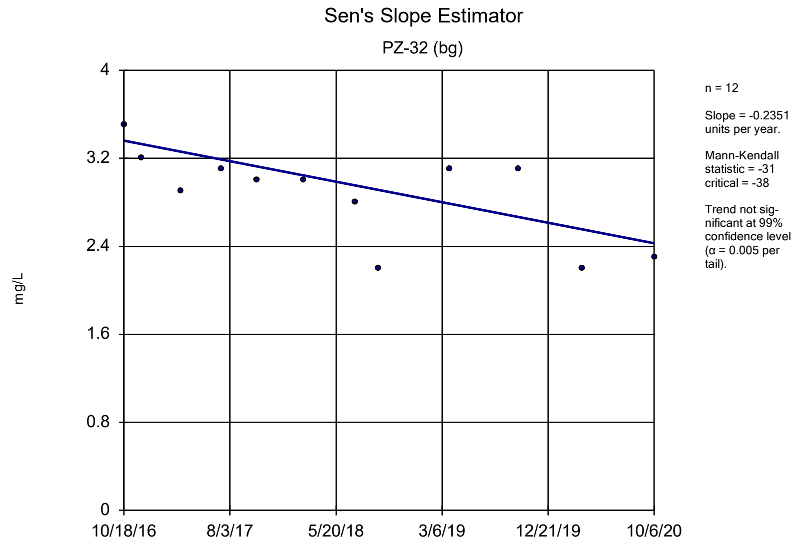


Sanitas™ v.9.6.27 . UG
Sen's Slope Estimator
PZ-2D (bg)
mg/L
3
2.4
1.8
1.2
0.6
0
4/12/18
10/10/18
4/10/19
10/8/19
4/7/20
10/6/20
n = 12
Slope = 0 units per year.
Mann-Kendall statistic = -6 critical = -38
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



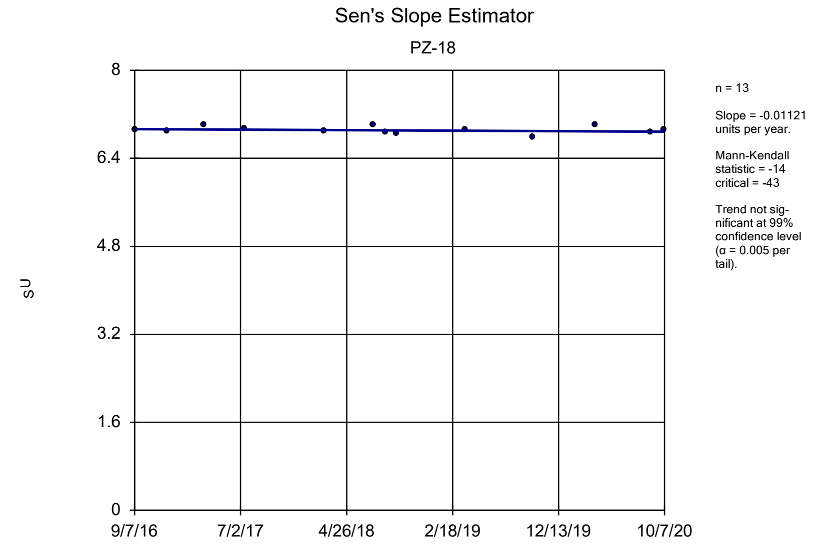
Sanitas™ v.9.6.27 . UG
Sen's Slope Estimator
PZ-31 (bg)
mg/L
5
4
3
2
1
0
10/18/16
8/3/17
5/20/18
3/6/19
12/21/19
10/6/20
n = 12
Slope = -0.4113 units per year.
Mann-Kendall statistic = -43 critical = -38
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).
Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



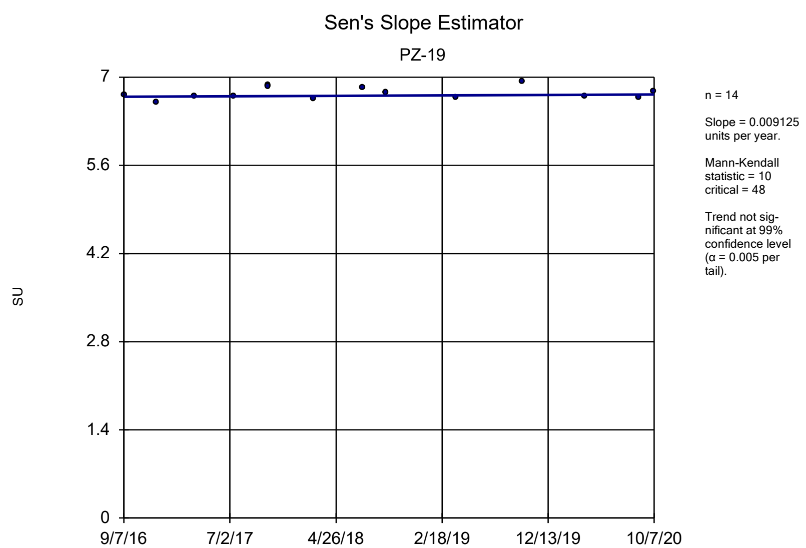
Constituent: Chloride   Analysis Run 12/8/2020 1:47 PM   View: Appendix III
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



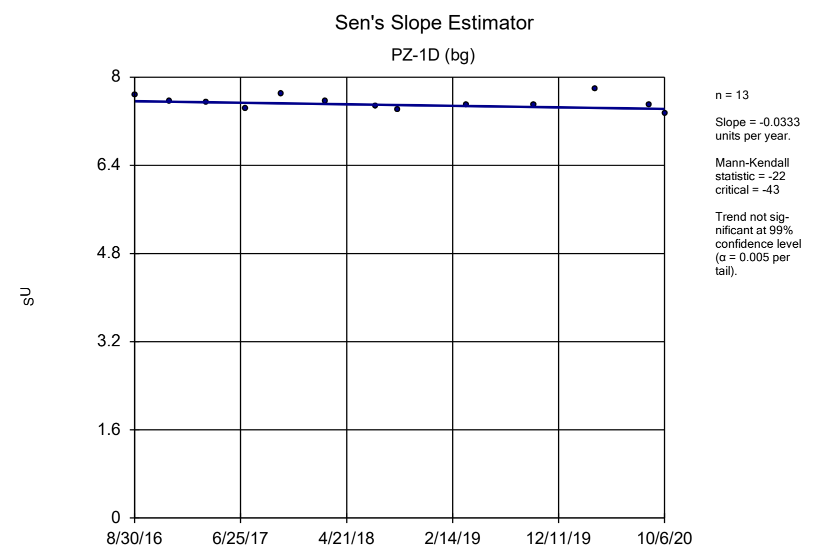
Constituent: pH   Analysis Run 12/8/2020 1:47 PM   View: Appendix III
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

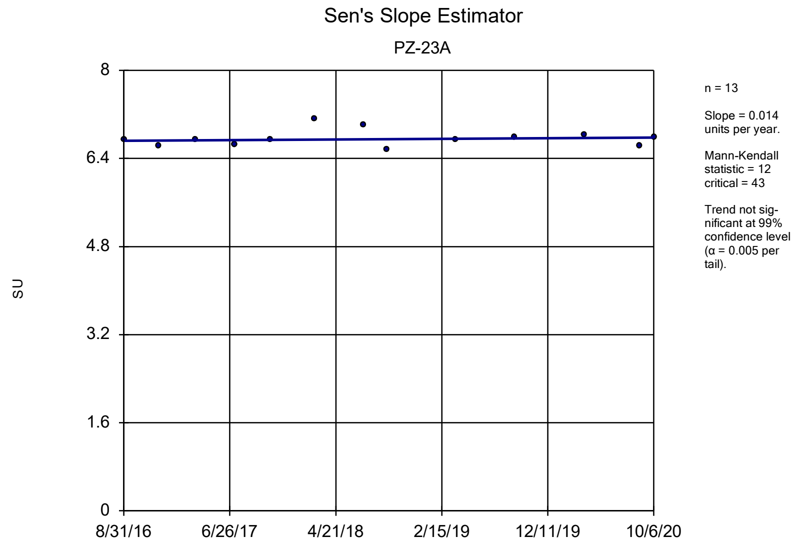


Constituent: pH   Analysis Run 12/8/2020 1:47 PM   View: Appendix III
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

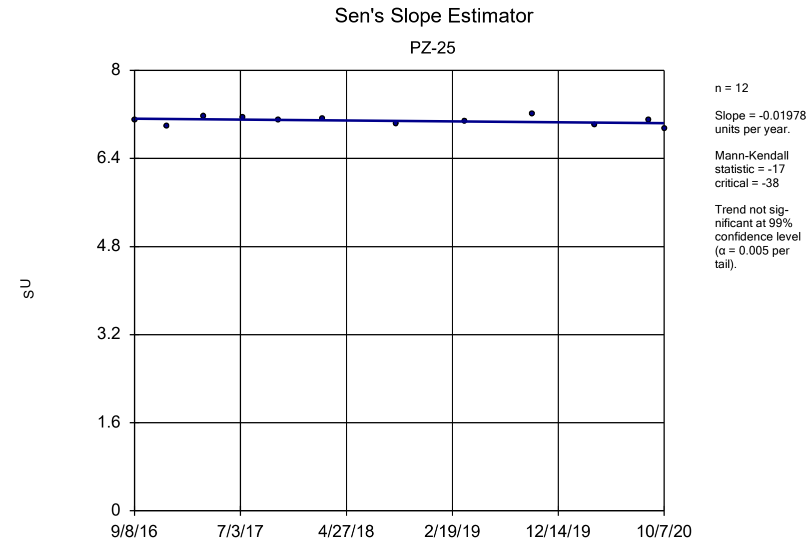


Constituent: pH   Analysis Run 12/8/2020 1:47 PM   View: Appendix III
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR



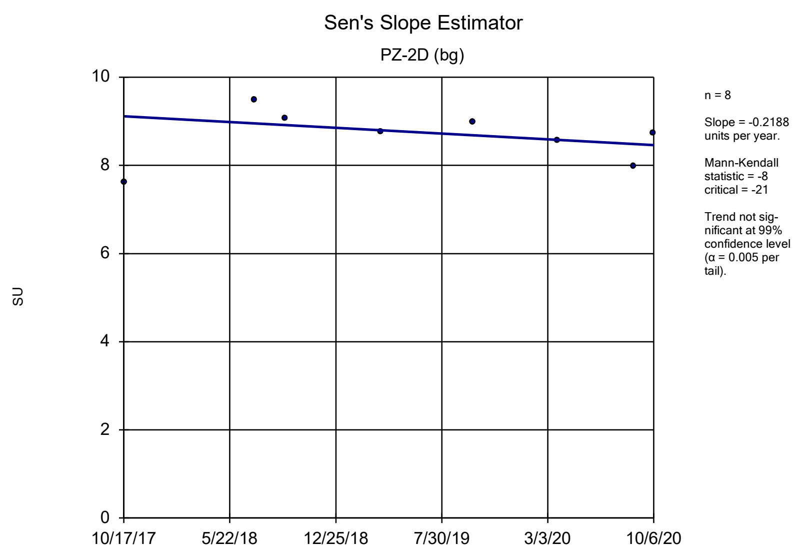
Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



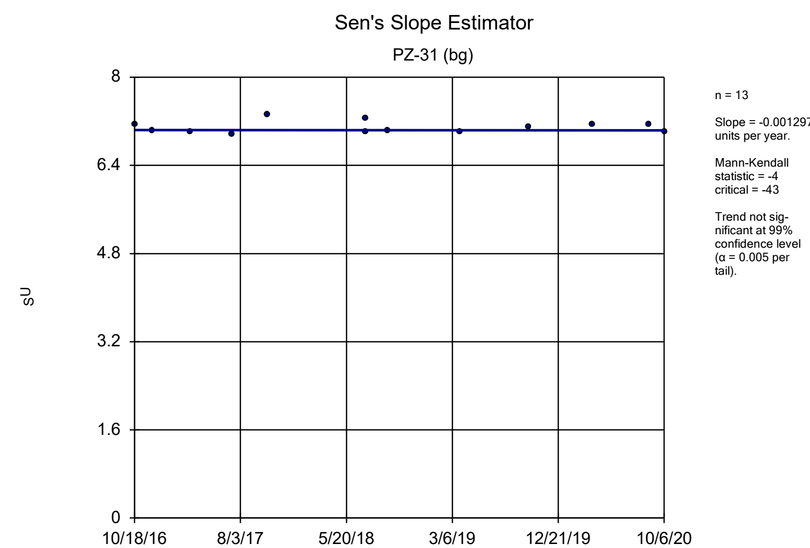
Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

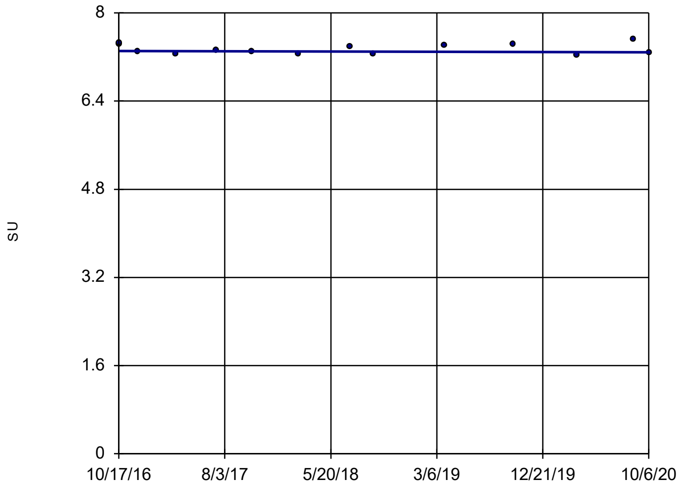


Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

Sen's Slope Estimator

PZ-32 (bg)



n = 14

Slope = -0.006728 units per year.

Mann-Kendall statistic = -8 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

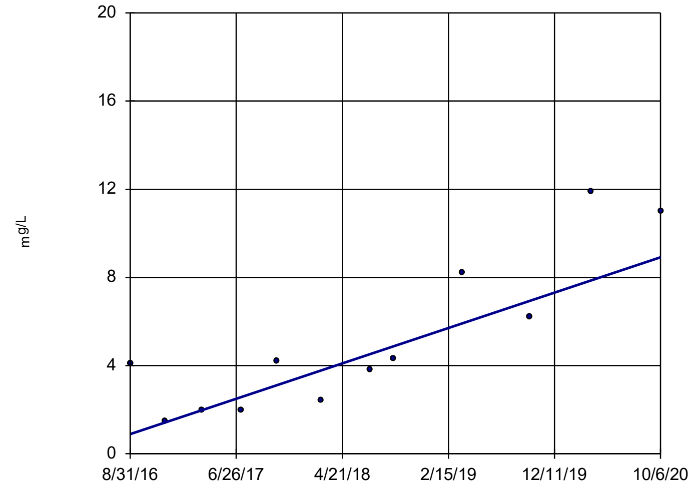
Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

Sen's Slope Estimator

PZ-14



n = 12

Slope = 1.958 units per year.

Mann-Kendall statistic = 47 critical = 38

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

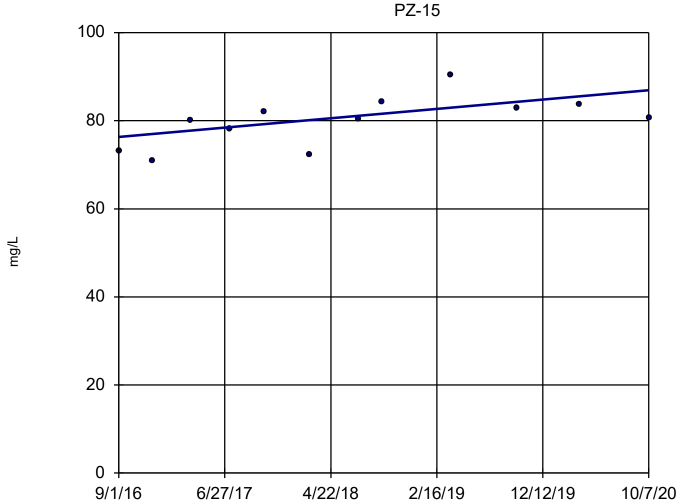
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

Sen's Slope Estimator

PZ-15



n = 12

Slope = 2.592 units per year.

Mann-Kendall statistic = 34 critical = 38

Trend not significant at 99% confidence level (α = 0.005 per tail).

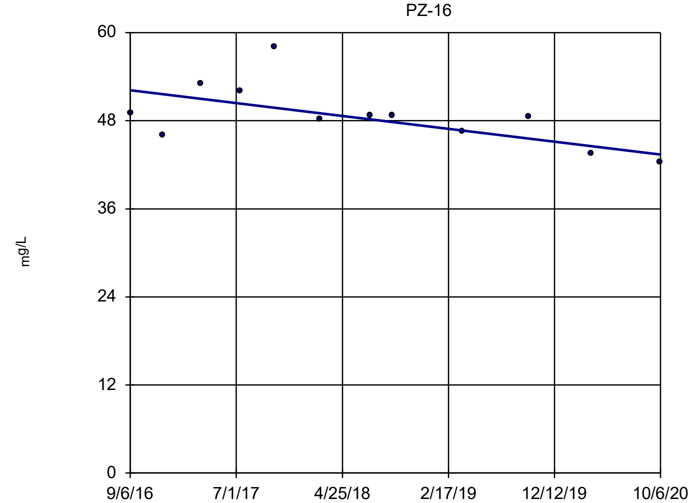
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

Sen's Slope Estimator

PZ-16



n = 12

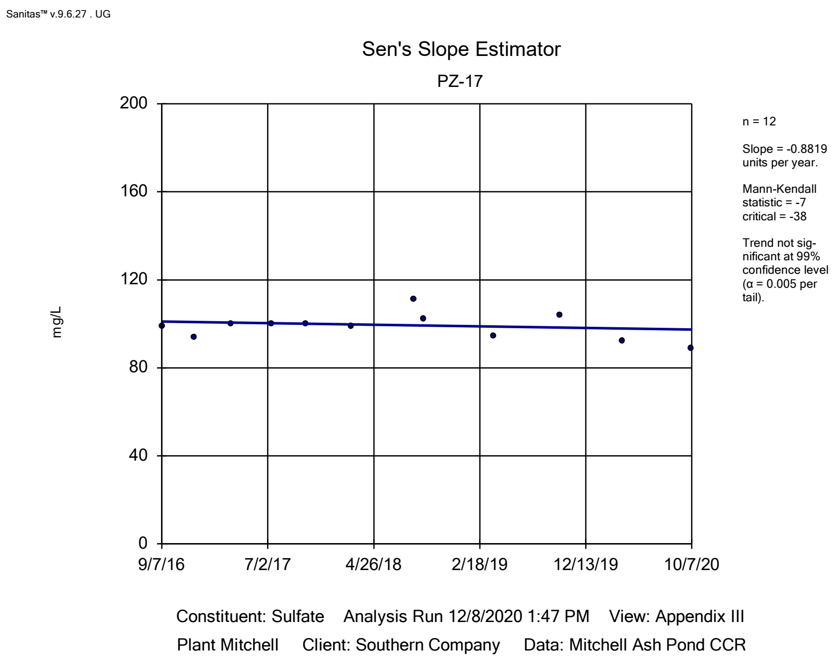
Slope = -2.14 units per year.

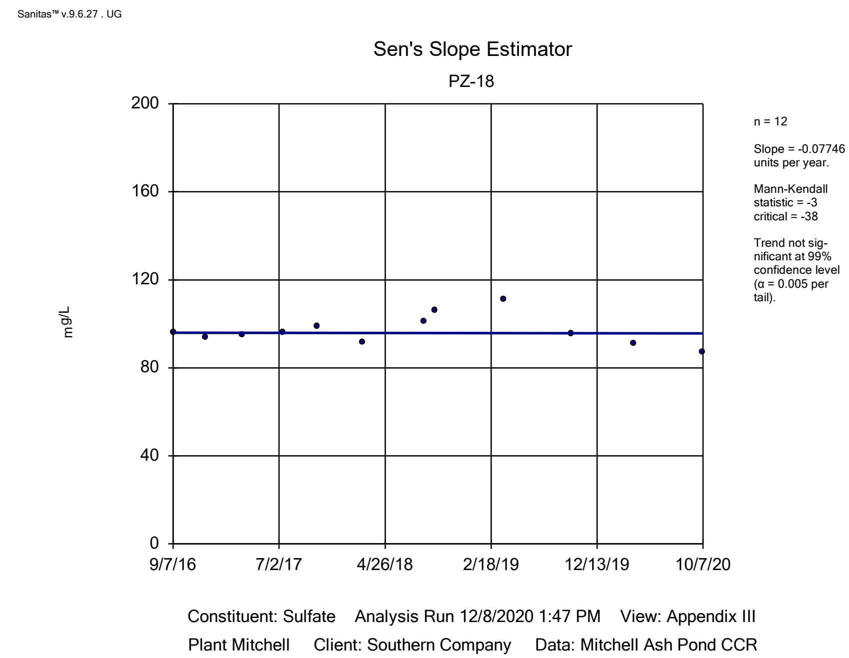
Mann-Kendall statistic = -32 critical = -38

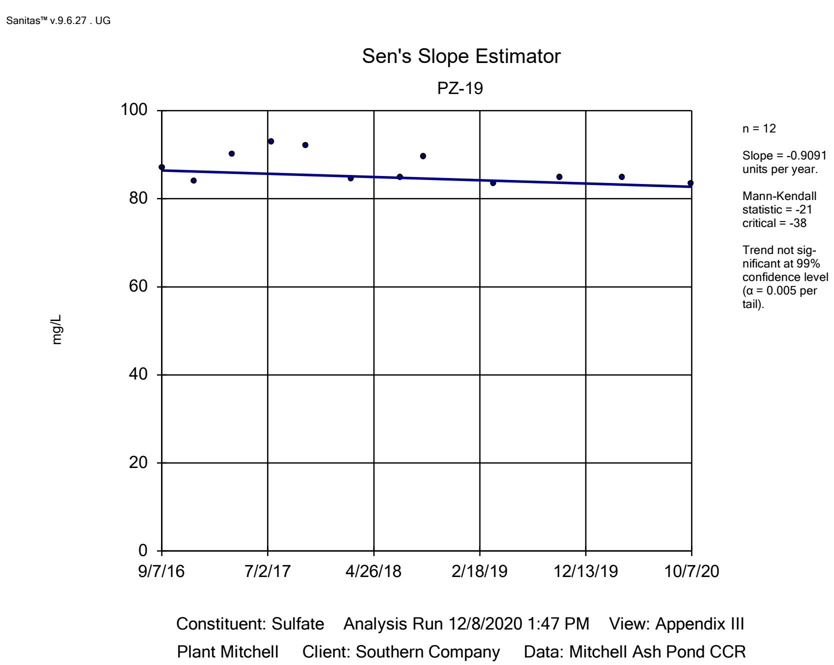
Trend not significant at 99% confidence level (α = 0.005 per tail).

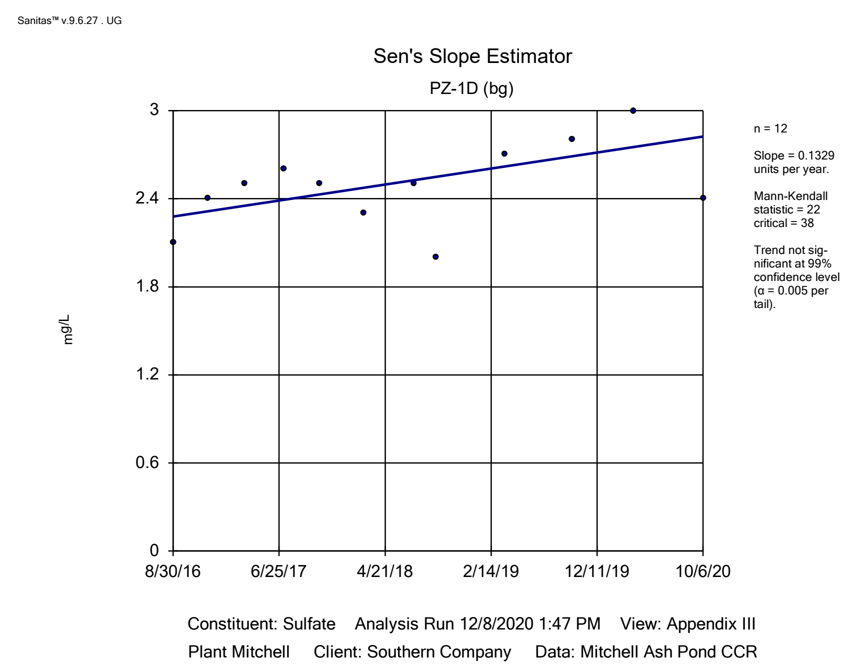
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III

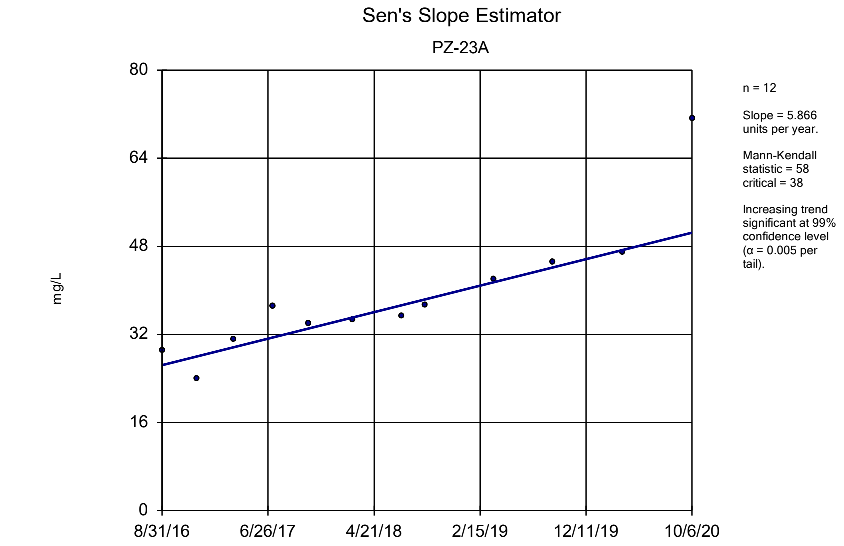
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.27 . UG
Sen's Slope Estimator
PZ-17
mg/L
0
40
80
120
160
200
9/7/16
7/2/17
4/26/18
2/18/19
12/13/19
10/7/20
n = 12
Slope = -0.8819 units per year.
Mann-Kendall statistic = -7 critical = -38
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.27 . UG
Sen's Slope Estimator
PZ-18
mg/L
0
40
80
120
160
200
9/7/16
7/2/17
4/26/18
2/18/19
12/13/19
10/7/20
n = 12
Slope = -0.07746 units per year.
Mann-Kendall statistic = -3 critical = -38
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.27 . UG
Sen's Slope Estimator
PZ-19
mg/L
0
20
40
60
80
100
9/7/16
7/2/17
4/26/18
2/18/19
12/13/19
10/7/20
n = 12
Slope = -0.9091 units per year.
Mann-Kendall statistic = -21 critical = -38
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.27 . UG
Sen's Slope Estimator
PZ-1D (bg)
mg/L
0
0.6
1.2
1.8
2.4
3
8/30/16
6/25/17
4/21/18
2/14/19
12/11/19
10/6/20
n = 12
Slope = 0.1329 units per year.
Mann-Kendall statistic = 22 critical = 38
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



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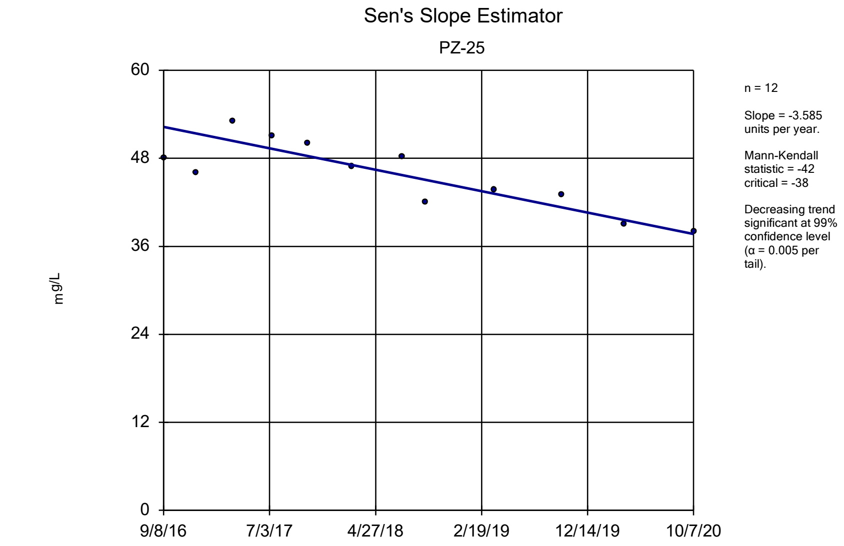
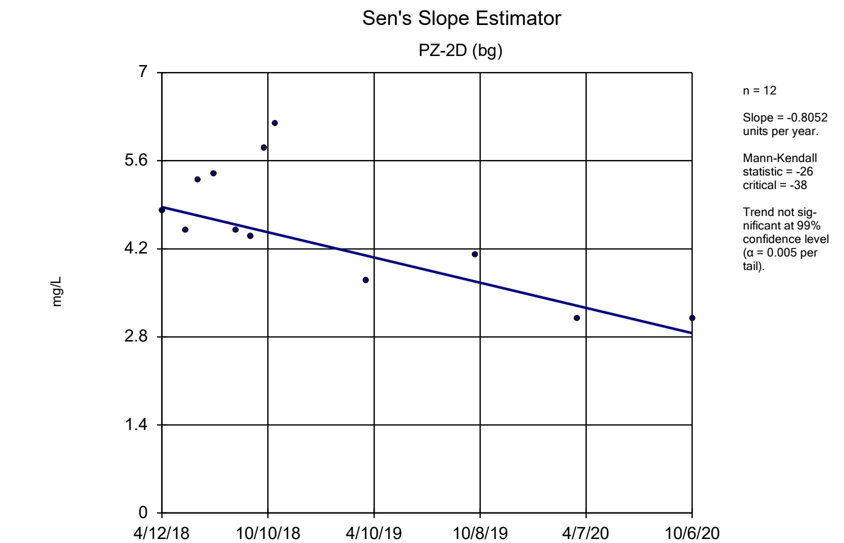
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



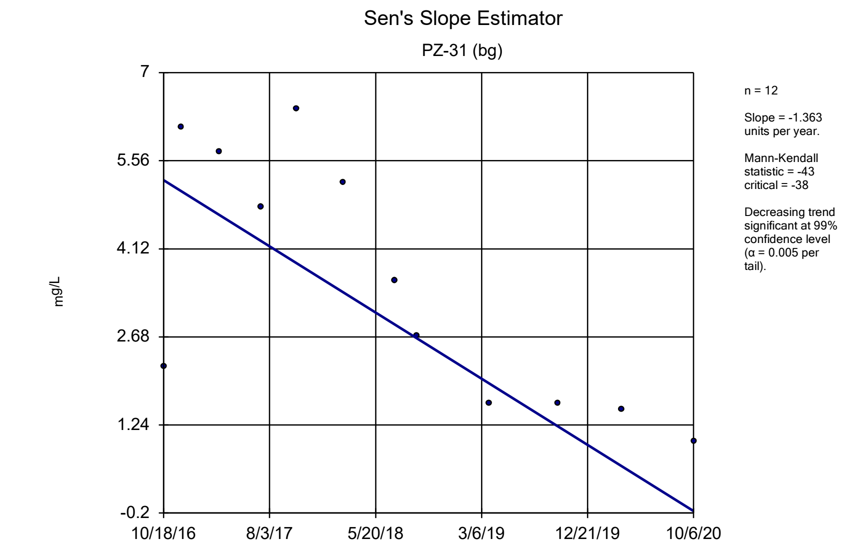
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



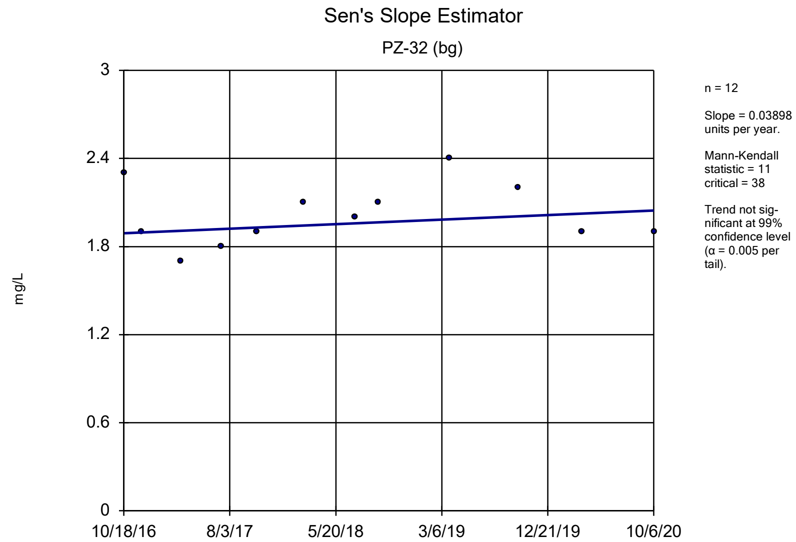
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



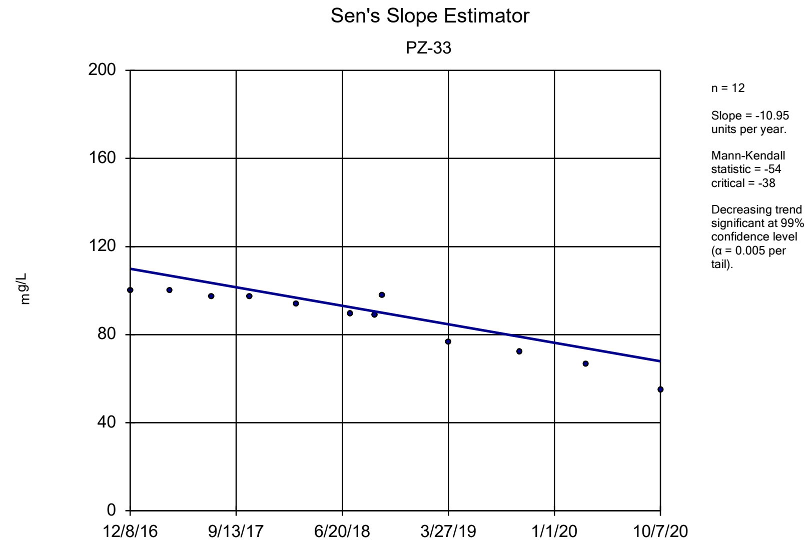
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



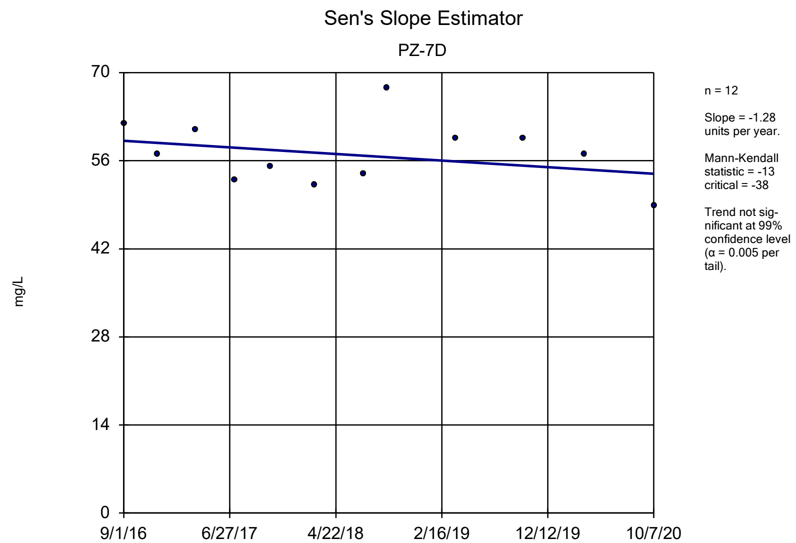
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



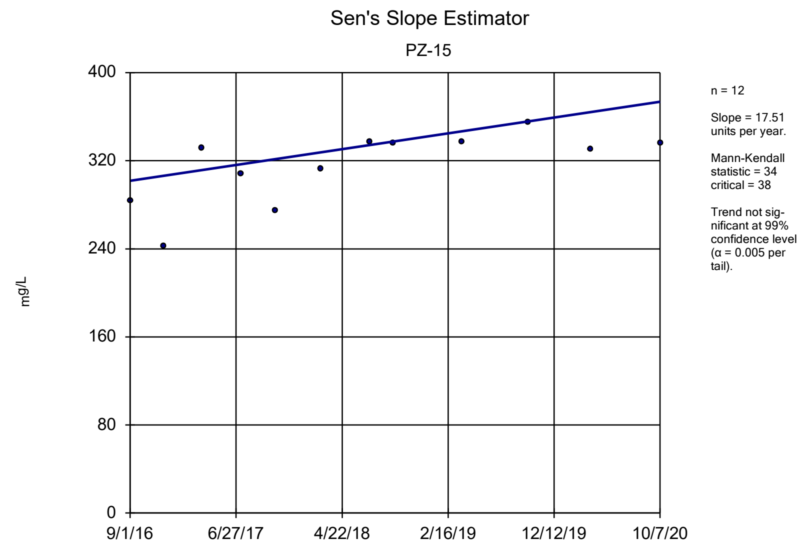
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

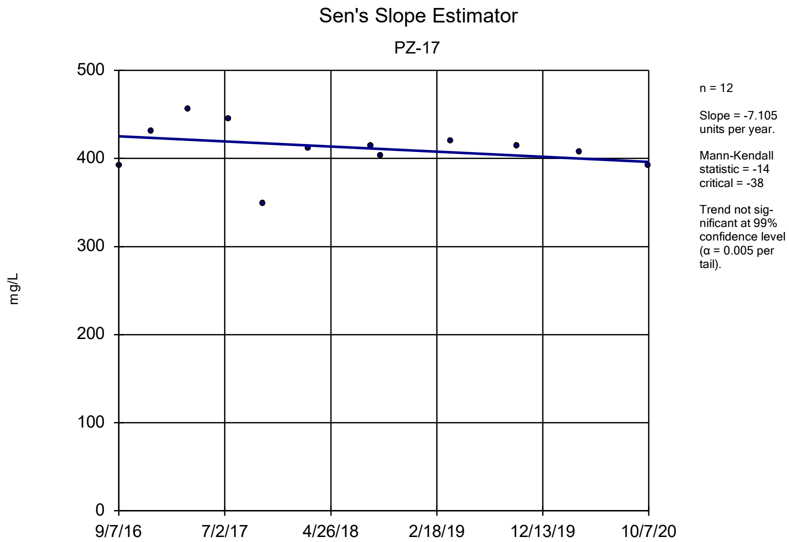


Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

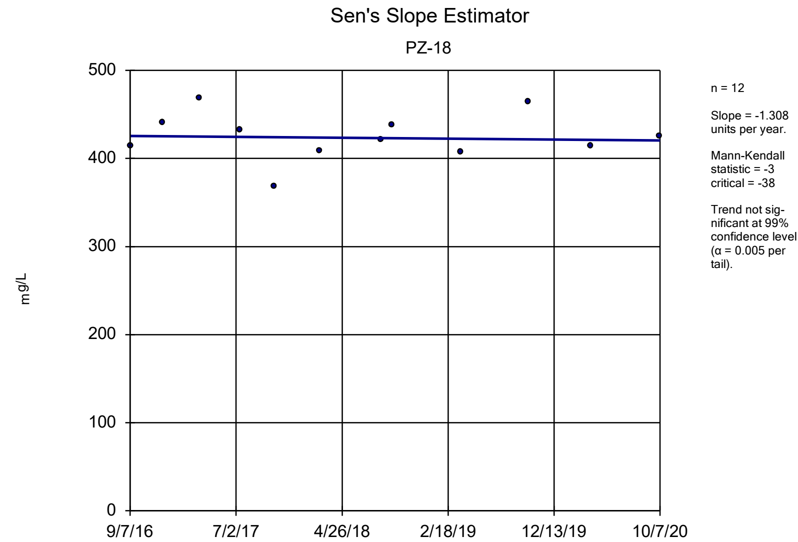


Constituent: TDS Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



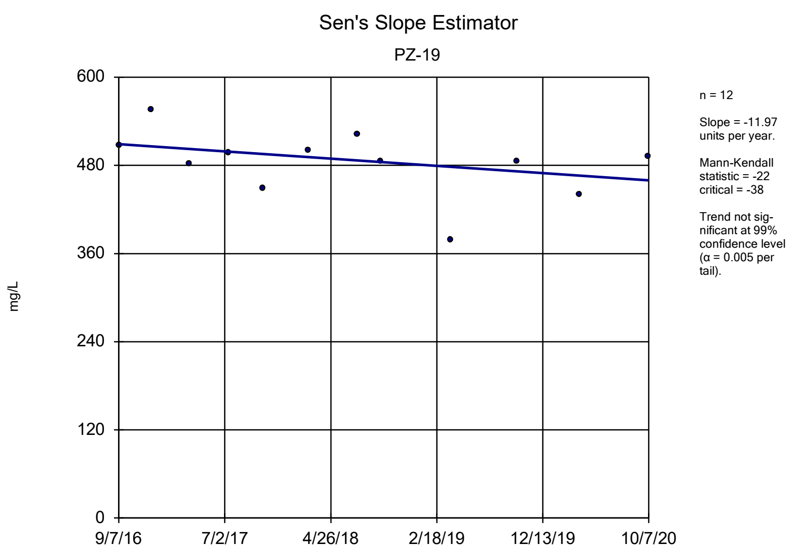
Constituent: TDS   Analysis Run 12/8/2020 1:47 PM   View: Appendix III
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



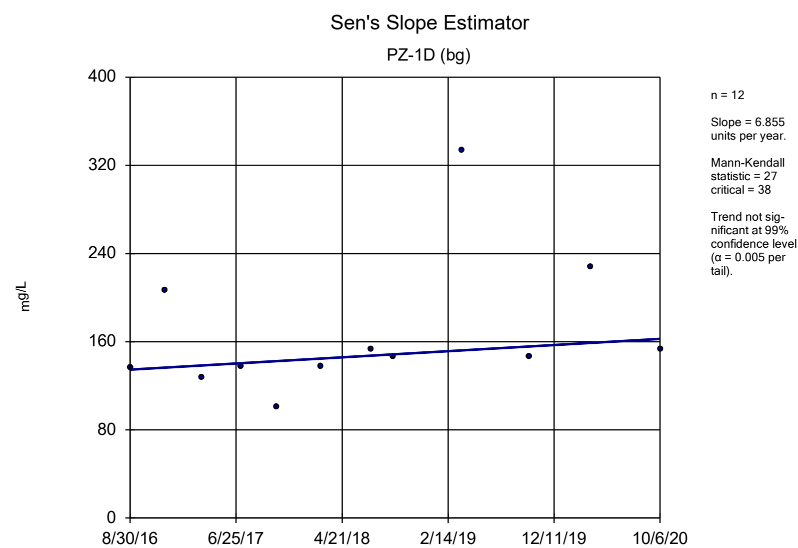
Constituent: TDS   Analysis Run 12/8/2020 1:47 PM   View: Appendix III
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

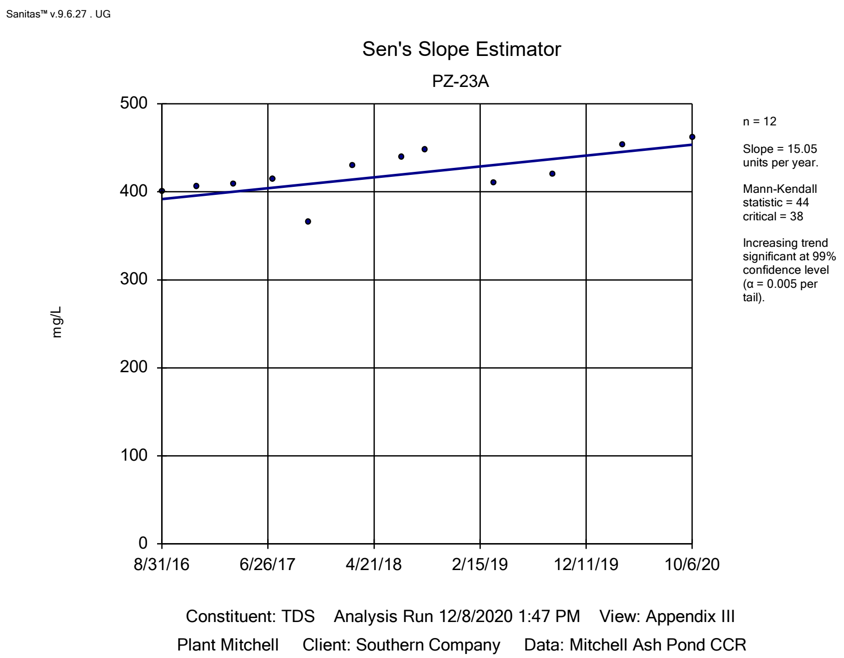


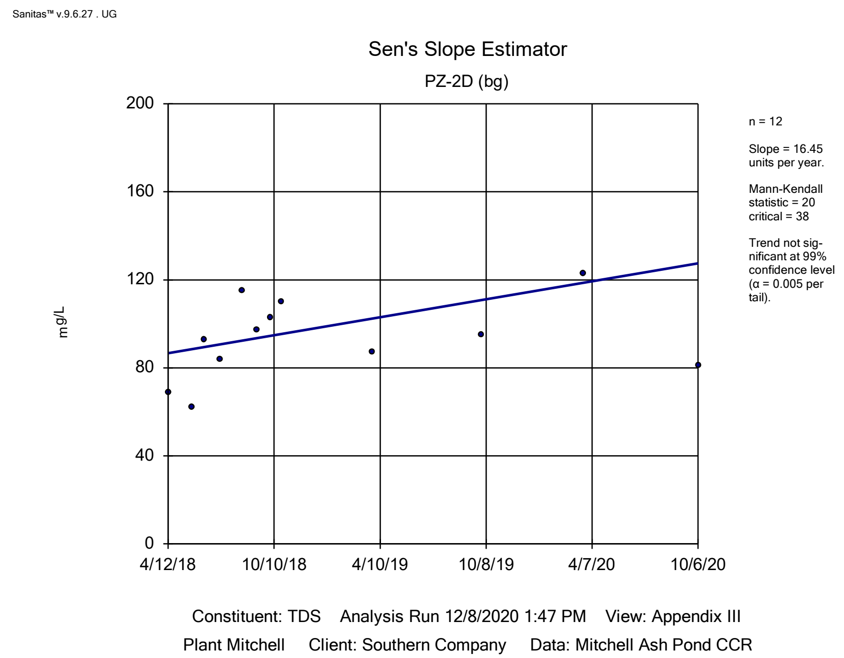
Constituent: TDS   Analysis Run 12/8/2020 1:47 PM   View: Appendix III
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

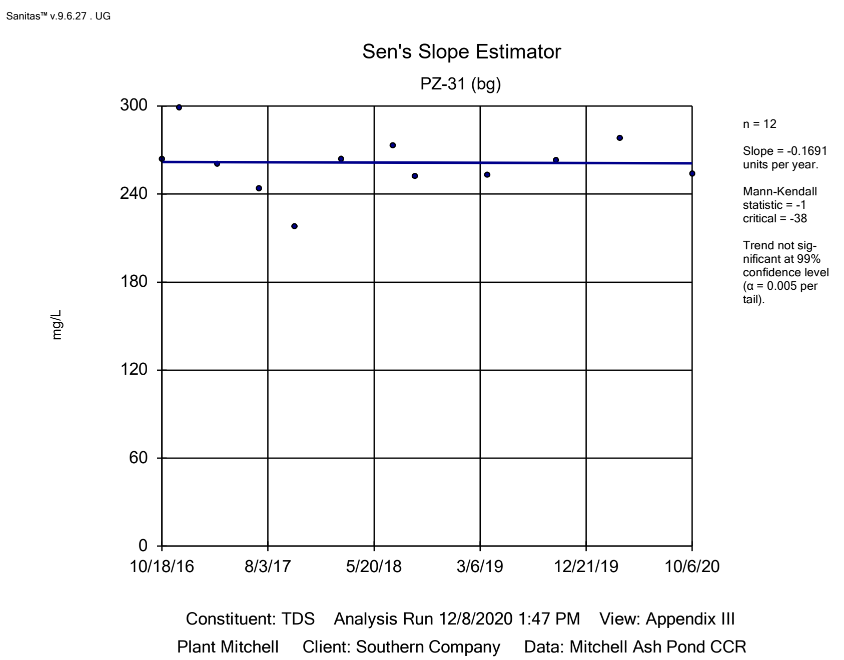
Sanitas™ v.9.6.27 . UG

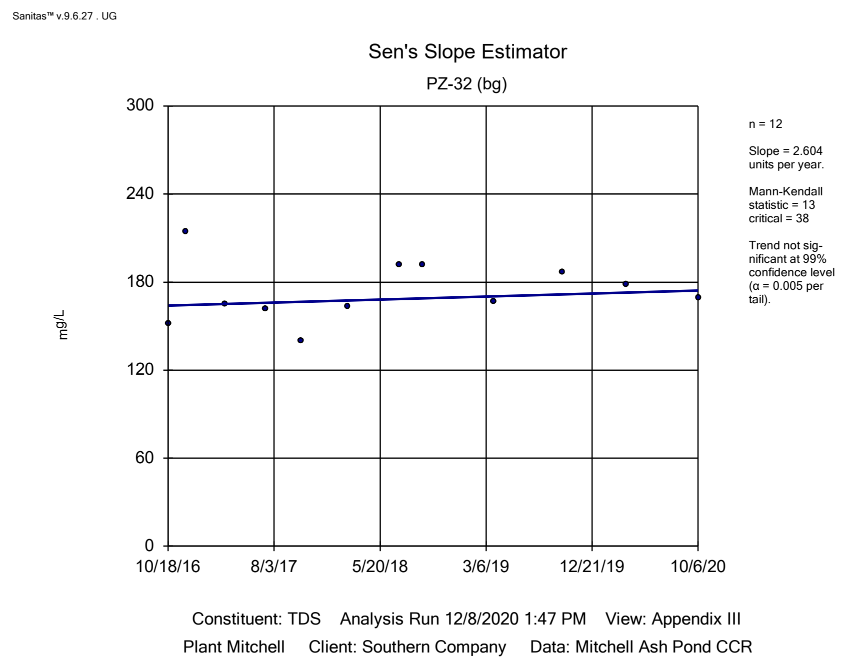


Constituent: TDS   Analysis Run 12/8/2020 1:47 PM   View: Appendix III
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

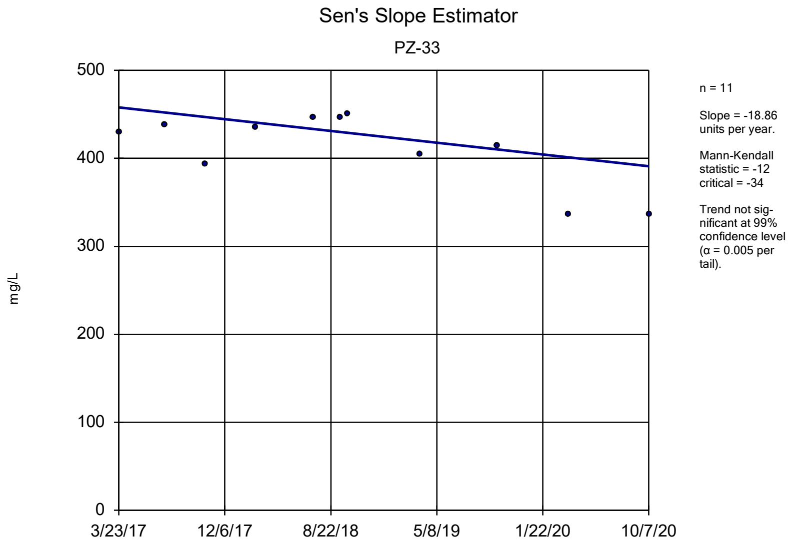

Sanitas™ v.9.6.27 . UG
Sen's Slope Estimator
PZ-23A
mg/L
500
400
300
200
100
0
8/31/16
6/26/17
4/21/18
2/15/19
12/11/19
10/6/20
n = 12
Slope = 15.05 units per year.
Mann-Kendall statistic = 44 critical = 38
Increasing trend significant at 99% confidence level (α = 0.005 per tail).
Constituent: TDS Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.27 . UG
Sen's Slope Estimator
PZ-2D (bg)
mg/L
200
160
120
80
40
0
4/12/18
10/10/18
4/10/19
10/8/19
4/7/20
10/6/20
n = 12
Slope = 16.45 units per year.
Mann-Kendall statistic = 20 critical = 38
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: TDS Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.27 . UG
Sen's Slope Estimator
PZ-31 (bg)
mg/L
300
240
180
120
60
0
10/18/16
8/3/17
5/20/18
3/6/19
12/21/19
10/6/20
n = 12
Slope = -0.1691 units per year.
Mann-Kendall statistic = -1 critical = -38
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: TDS Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.27 . UG
Sen's Slope Estimator
PZ-32 (bg)
mg/L
300
240
180
120
60
0
10/18/16
8/3/17
5/20/18
3/6/19
12/21/19
10/6/20
n = 12
Slope = 2.604 units per year.
Mann-Kendall statistic = 13 critical = 38
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: TDS Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

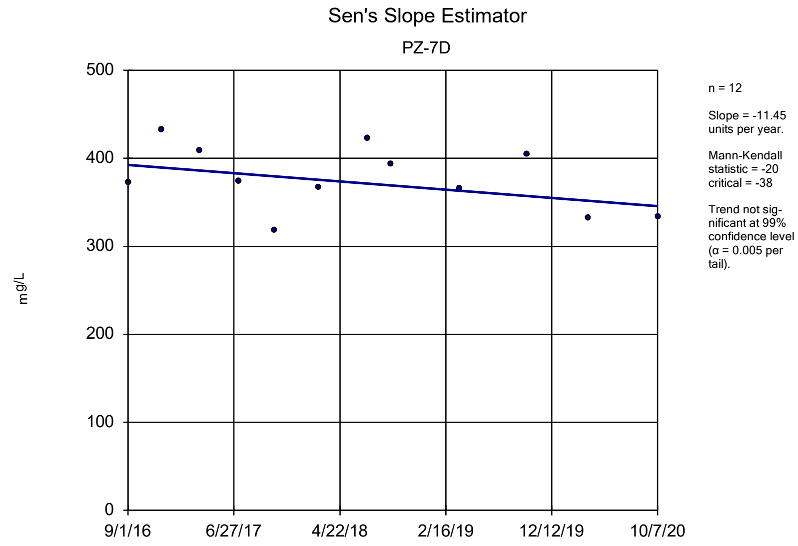
Sanitas™ v.9.6.27 . UG



Constituent: TDS Analysis Run 12/8/2020 1:48 PM View: Appendix III

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



Constituent: TDS Analysis Run 12/8/2020 1:48 PM View: Appendix III

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

FIGURE F.

Upper Tolerance Limit

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 12/8/2020, 3:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0035	n/a	n/a	n/a	n/a	48	54.17	n/a	0.08526	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	44	86.36	n/a	0.1047	NP Inter(NDs)
Barium (mg/L)	n/a	0.05872	n/a	n/a	n/a	n/a	48	2.083	ln(x)	0.05	Inter
Beryllium (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	36	94.44	n/a	0.1578	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	36	100	n/a	0.1578	NP Inter(NDs)
Chromium (mg/L)	n/a	0.011	n/a	n/a	n/a	n/a	48	25	n/a	0.08526	NP Inter(normality)
Cobalt (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	48	95.83	n/a	0.08526	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.783	n/a	n/a	n/a	n/a	46	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.29	n/a	n/a	n/a	n/a	52	42.31	n/a	0.06944	NP Inter(normality)
Lead (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	48	77.08	n/a	0.08526	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	48	81.25	n/a	0.08526	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	40	90	n/a	0.1285	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	48	79.17	n/a	0.08526	NP Inter(NDs)
Selenium (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	48	100	n/a	0.08526	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	48	87.5	n/a	0.08526	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	0.059	2
Beryllium, Total (mg/L)	0.004	0.003	0.004
Cadmium, Total (mg/L)	0.005	0.0025	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	1.8	5
Fluoride, Total (mg/L)	4	0.29	4
Lead, Total (mg/L)	n/a	0.005	0.005
Lithium, Total (mg/L)	n/a	0.03	0.03
Mercury, Total (mg/L)	0.002	0.0005	0.002
Molybdenum, Total (mg/L)	n/a	0.01	0.01
Selenium, Total (mg/L)	0.05	0.01	0.05
Thallium, Total (mg/L)	0.002	0.001	0.002

**MCL = Maximum Contaminant Level*

FIGURE H.

Confidence Intervals Summary - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 4:07 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	12	0.002783	0.0007506	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-15	0.003	0.001	0.006	No	12	0.002635	0.0008563	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-16	0.003	0.00037	0.006	No	12	0.002781	0.0007592	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-17	0.003	0.00094	0.006	No	12	0.002629	0.0008689	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-18	0.003	0.0018	0.006	No	12	0.002767	0.0005516	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-19	0.003	0.00044	0.006	No	12	0.002787	0.000739	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-23A	0.003	0.00038	0.006	No	12	0.002782	0.0007563	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-33	0.003	0.00037	0.006	No	12	0.002781	0.0007592	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-7D	0.003	0.00031	0.006	No	12	0.002335	0.001203	75	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-14	0.03714	0.01838	2	No	12	0.02816	0.01364	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-15	0.07246	0.04991	2	No	12	0.06183	0.0165	0	None	ln(x)	0.01	Param.
Barium (mg/L)	PZ-16	0.0689	0.034	2	No	12	0.04591	0.01408	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-17	0.08083	0.07355	2	No	12	0.07719	0.004635	0	None	No	0.01	Param.
Barium (mg/L)	PZ-18	0.0513	0.023	2	No	12	0.03133	0.01488	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-19	0.06019	0.0528	2	No	12	0.05649	0.004707	0	None	No	0.01	Param.
Barium (mg/L)	PZ-23A	0.05486	0.03699	2	No	12	0.04593	0.01139	0	None	No	0.01	Param.
Barium (mg/L)	PZ-25	0.11	0.0997	2	No	12	0.1034	0.005199	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-33	0.07679	0.05702	2	No	11	0.06691	0.01186	0	None	No	0.01	Param.
Barium (mg/L)	PZ-7D	0.01075	0.007288	2	No	12	0.009017	0.002203	0	None	No	0.01	Param.
Chromium (mg/L)	PZ-14	0.01	0.0011	0.1	No	12	0.007782	0.004014	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-16	0.01	0.0008	0.1	No	12	0.006209	0.004689	58.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-18	0.01	0.00056	0.1	No	12	0.009213	0.002725	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-19	0.01	0.00073	0.1	No	12	0.009227	0.002676	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-23A	0.01	0.0012	0.1	No	12	0.003933	0.003761	25	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-33	0.01	0.0017	0.1	No	12	0.009308	0.002396	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-7D	0.01	0.0005	0.1	No	12	0.004875	0.004575	41.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-14	0.005	0.002	0.005	No	12	0.004358	0.001542	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-15	0.005	0.0004	0.005	No	12	0.003167	0.002275	58.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-16	0.005	0.0005	0.005	No	12	0.004625	0.001299	91.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-17	0.005	0.0005	0.005	No	12	0.002802	0.002303	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-18	0.005	0.0011	0.005	No	12	0.004675	0.001126	91.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-19	0.005	0.0012	0.005	No	12	0.004342	0.001539	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-23A	0.005	0.00058	0.005	No	12	0.003529	0.002175	66.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-25	0.0018	0.0008	0.005	No	12	0.001496	0.001162	8.333	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-33	0.005	0.00053	0.005	No	12	0.003152	0.002146	50	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	PZ-14	1.152	0.3085	5	No	12	0.7628	0.6096	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-15	1.172	0.6466	5	No	12	0.9188	0.3714	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-16	0.9753	0.4541	5	No	12	0.7147	0.3321	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-17	1.35	0.6643	5	No	11	1.007	0.4112	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-18	1.432	0.4765	5	No	10	0.9541	0.5353	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-19	1.473	0.7657	5	No	12	1.119	0.4508	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-23A	1.326	0.766	5	No	12	1.046	0.3565	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-25	1.287	0.841	5	No	12	1.064	0.2843	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-33	1.106	0.5856	5	No	12	0.846	0.3319	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-7D	0.6563	0.1595	5	No	12	0.4285	0.3741	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-14	0.11	0.05	4	No	13	0.08892	0.02636	53.85	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-15	0.1387	0.07074	4	No	13	0.1118	0.05007	23.08	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-16	0.1	0.05	4	No	13	0.08177	0.02548	53.85	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-17	0.1562	0.05733	4	No	13	0.1289	0.06857	30.77	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-18	0.1194	0.05633	4	No	13	0.103	0.03767	46.15	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-19	0.1462	0.06916	4	No	13	0.1216	0.08232	15.38	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-23A	0.101	0.04841	4	No	13	0.1009	0.06622	30.77	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-25	0.2679	0.1614	4	No	13	0.2146	0.0716	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-33	0.18	0.06	4	No	13	0.1076	0.04758	53.85	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-7D	0.15	0.041	4	No	13	0.08815	0.03377	61.54	None	No	0.01	NP (NDs)

Confidence Intervals Summary - All Results (No Significant)

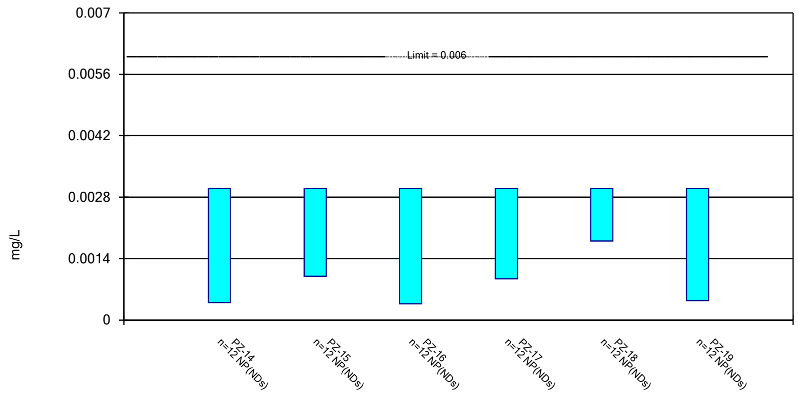
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 4:07 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	PZ-15	0.005	0.00005	0.005	No	12	0.004587	0.001429	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-16	0.005	0.000081	0.005	No	12	0.00459	0.00142	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-18	0.005	0.00043	0.005	No	12	0.004206	0.001856	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-19	0.005	0.000042	0.005	No	12	0.004587	0.001431	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-23A	0.005	0.00015	0.005	No	12	0.004183	0.001908	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-33	0.005	0.00009	0.005	No	12	0.004178	0.00192	83.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14	0.03	0.003	0.03	No	12	0.02775	0.007794	91.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-15	0.03	0.0012	0.03	No	12	0.01324	0.01479	41.67	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-17	0.03	0.002	0.03	No	12	0.00705	0.01073	16.67	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-18	0.03	0.0024	0.03	No	12	0.007217	0.01064	16.67	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-19	0.01467	0.009498	0.03	No	12	0.01208	0.003295	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-23A	0.03	0.0011	0.03	No	12	0.02276	0.01309	75	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-25	0.006773	0.005229	0.03	No	12	0.005958	0.001097	0	None	x^2	0.01	Param.
Lithium (mg/L)	PZ-7D	0.0038	0.0022	0.03	No	12	0.005083	0.007865	8.333	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-14	0.0005	0.00015	0.002	No	10	0.000422	0.0001655	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-15	0.0005	0.0005	0.002	No	10	0.0004597	0.0001274	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-16	0.0005	0.0005	0.002	No	10	0.0004568	0.0001366	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-17	0.0005	0.0005	0.002	No	10	0.0004586	0.0001309	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-18	0.0005	0.0005	0.002	No	10	0.0004557	0.0001401	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-19	0.0005	0.0001	0.002	No	10	0.0004145	0.0001807	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-23A	0.0005	0.00017	0.002	No	10	0.000426	0.0001571	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-25	0.0005	0.0005	0.002	No	10	0.0004553	0.0001414	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-33	0.0005	0.000043	0.002	No	10	0.0003694	0.0002111	70	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-7D	0.0005	0.00006	0.002	No	10	0.0004113	0.000187	80	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	PZ-14	0.01	0.0005	0.01	No	12	0.009208	0.002742	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-15	0.01	0.0004	0.01	No	12	0.0092	0.002771	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-16	0.01	0.0004	0.01	No	12	0.0092	0.002771	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-17	0.01	0.0004	0.01	No	12	0.0092	0.002771	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-19	0.0027	0.002	0.01	No	12	0.002883	0.002252	8.333	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-23A	0.01	0.0011	0.01	No	12	0.008475	0.003563	83.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-25	0.01	0.001	0.01	No	12	0.00925	0.002598	91.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-14	0.01	0.0015	0.05	No	12	0.008558	0.003368	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-15	0.01	0.0018	0.05	No	12	0.009317	0.002367	91.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-19	0.01	0.0016	0.05	No	12	0.006925	0.003847	58.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-23A	0.01	0.0018	0.05	No	12	0.006792	0.003986	58.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-7D	0.01	0.0018	0.05	No	12	0.008625	0.003211	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-14	0.001	0.00006	0.002	No	12	0.0009217	0.0002714	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-15	0.001	0.00016	0.002	No	12	0.0007325	0.0003963	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-16	0.001	0.00017	0.002	No	12	0.0005836	0.0004366	50	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-17	0.001	0.0002	0.002	No	12	0.0007358	0.0003907	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-18	0.001	0.00005	0.002	No	12	0.0007634	0.000428	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-19	0.0007625	0.0004325	0.002	No	12	0.0005975	0.0002103	8.333	None	No	0.01	Param.
Thallium (mg/L)	PZ-23A	0.001	0.00015	0.002	No	12	0.0004625	0.0004001	33.33	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-25	0.001	0.00027	0.002	No	12	0.0007708	0.0003403	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-33	0.001	0.0001	0.002	No	12	0.0006358	0.0004506	58.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-7D	0.001	0.000085	0.002	No	12	0.0006303	0.0004579	58.33	None	No	0.01	NP (NDs)

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



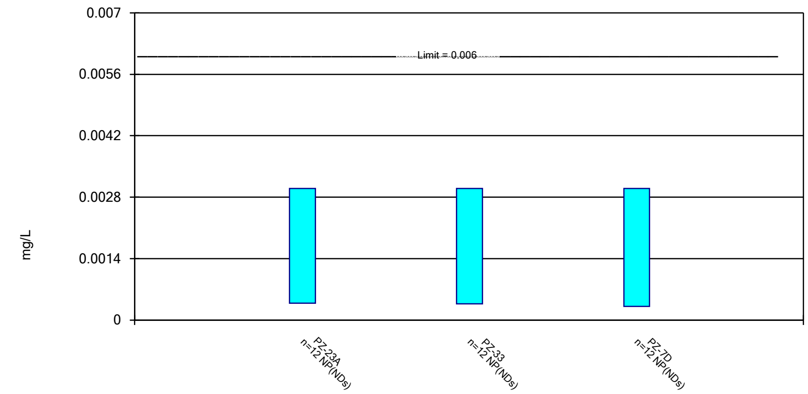
Constituent: Antimony   Analysis Run 12/8/2020 4:04 PM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



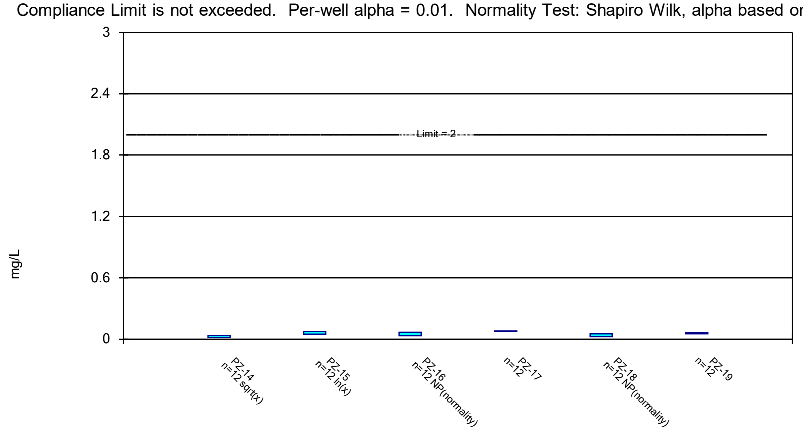
Constituent: Antimony   Analysis Run 12/8/2020 4:04 PM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 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.



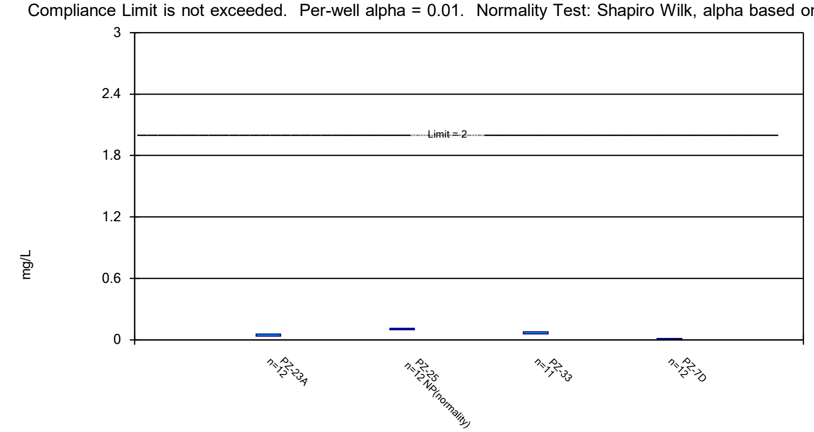
Constituent: Barium   Analysis Run 12/8/2020 4:04 PM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 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.



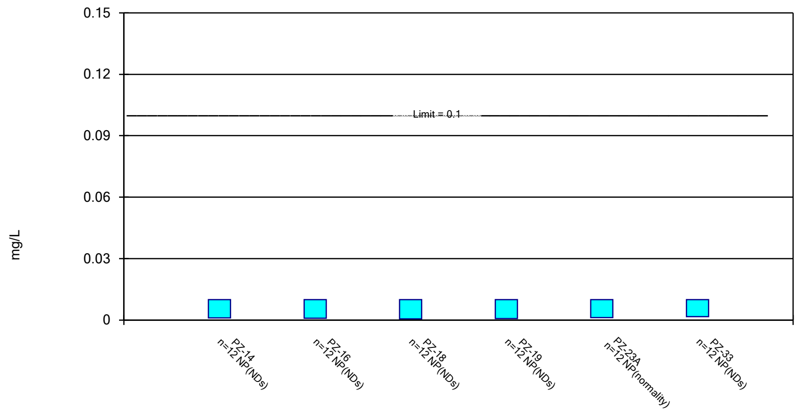
Constituent: Barium   Analysis Run 12/8/2020 4:04 PM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



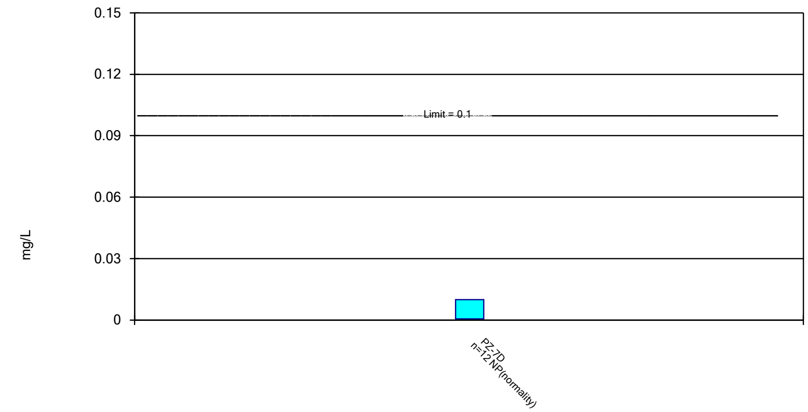
Constituent: Chromium Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



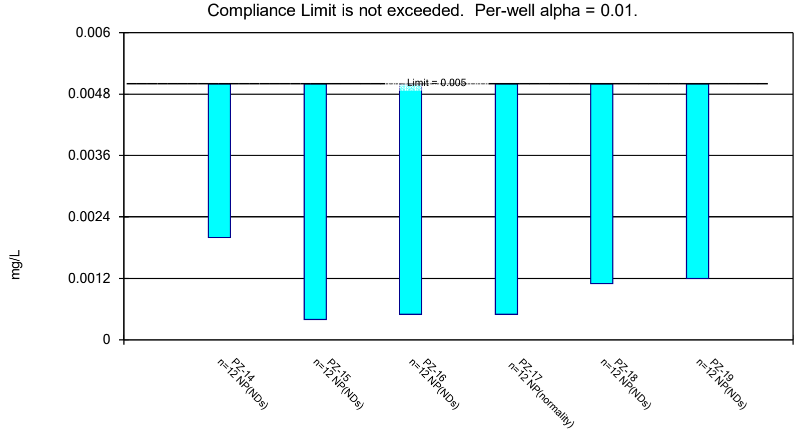
Constituent: Chromium Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



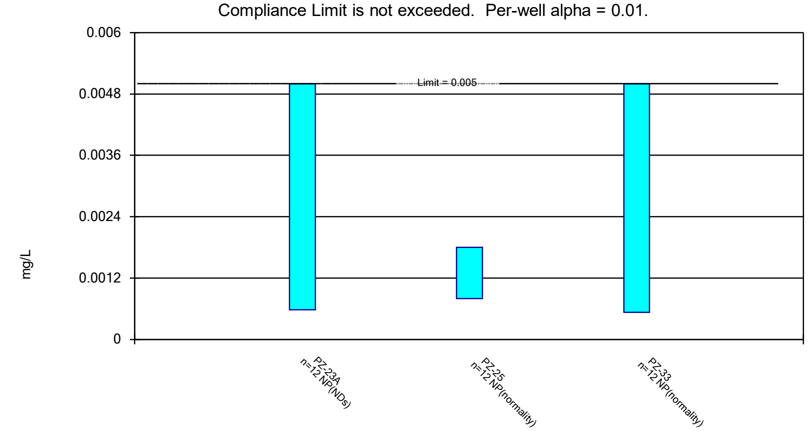
Constituent: Cobalt Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



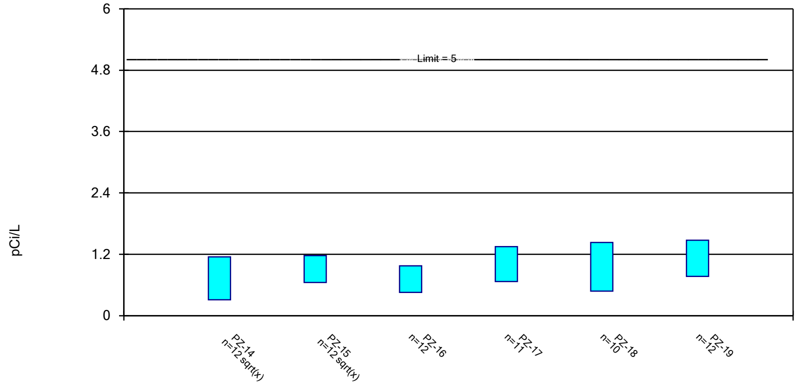
Constituent: Cobalt Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 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.



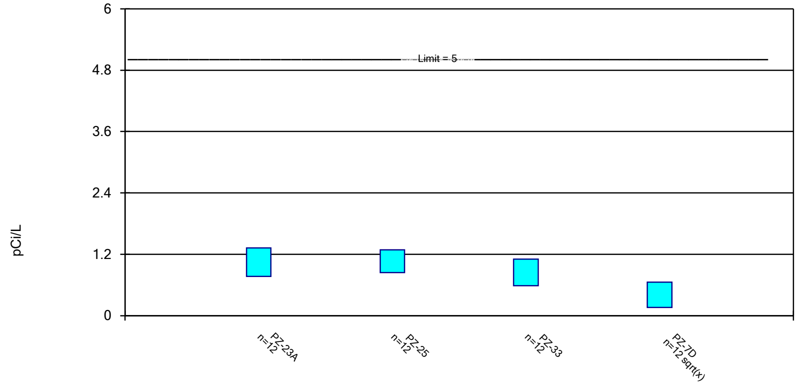
Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 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.



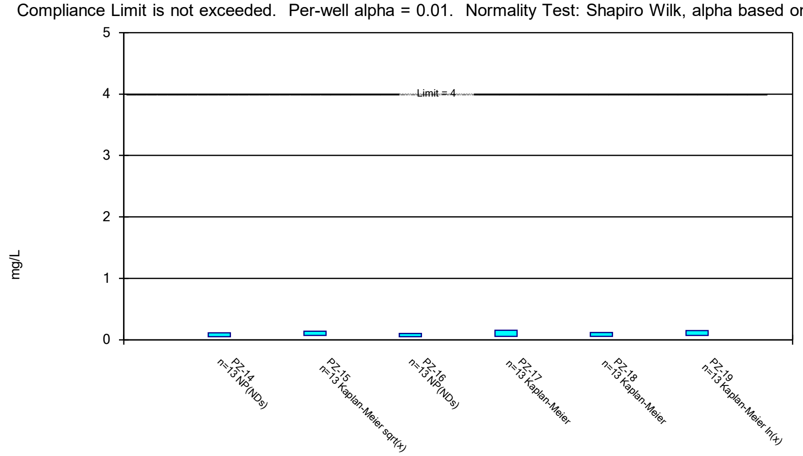
Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 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.



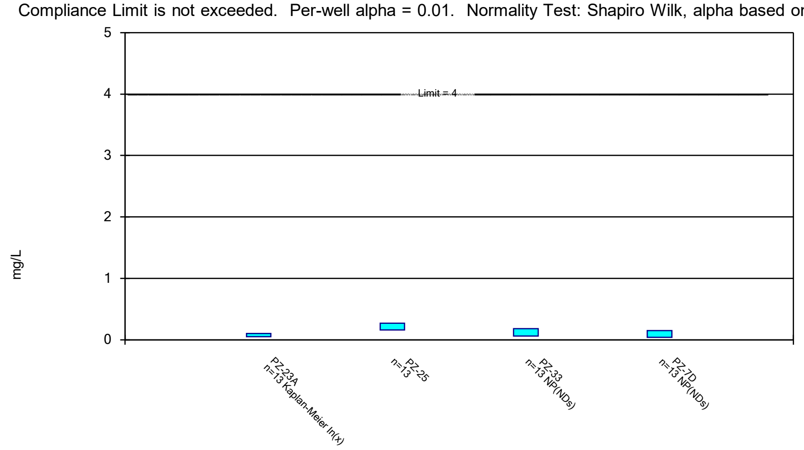
Constituent: Fluoride Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 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.



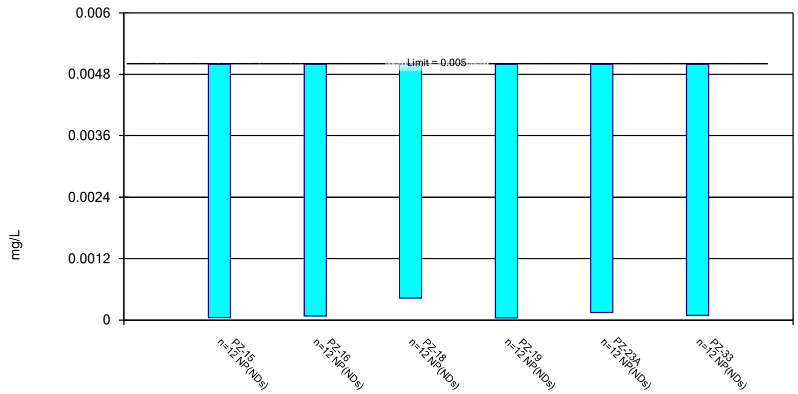
Constituent: Fluoride Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



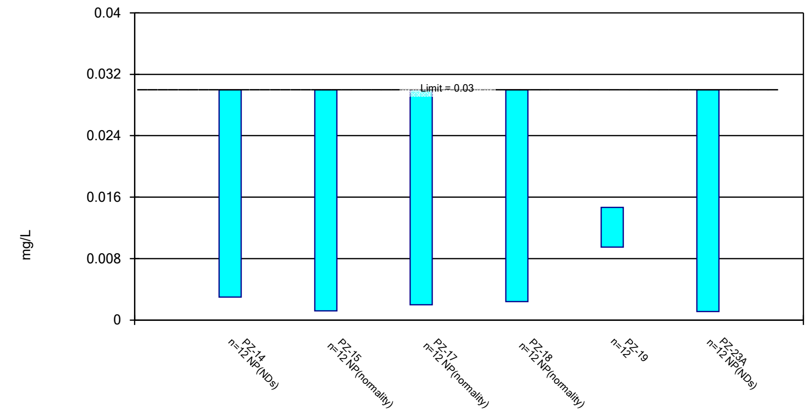
Constituent: Lead Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 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.



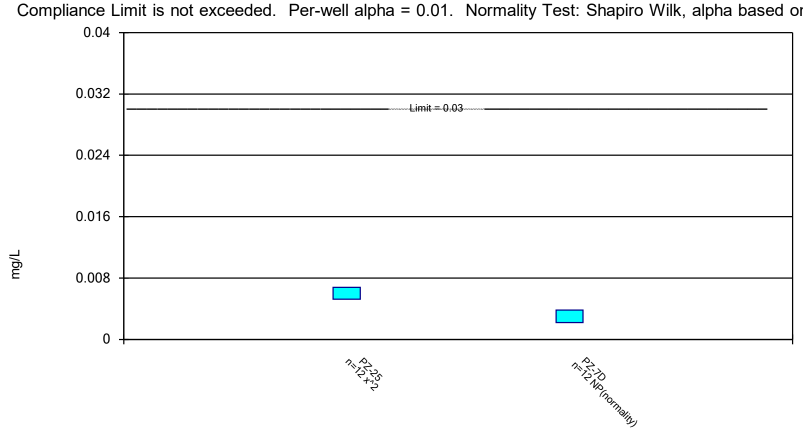
Constituent: Lithium Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 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.



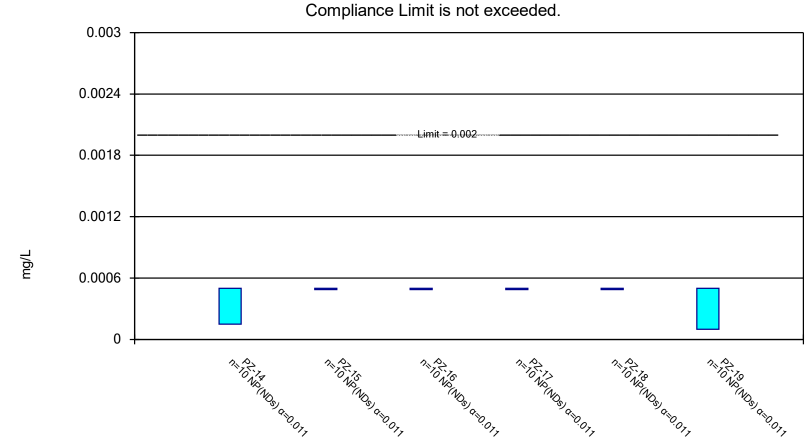
Constituent: Lithium Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

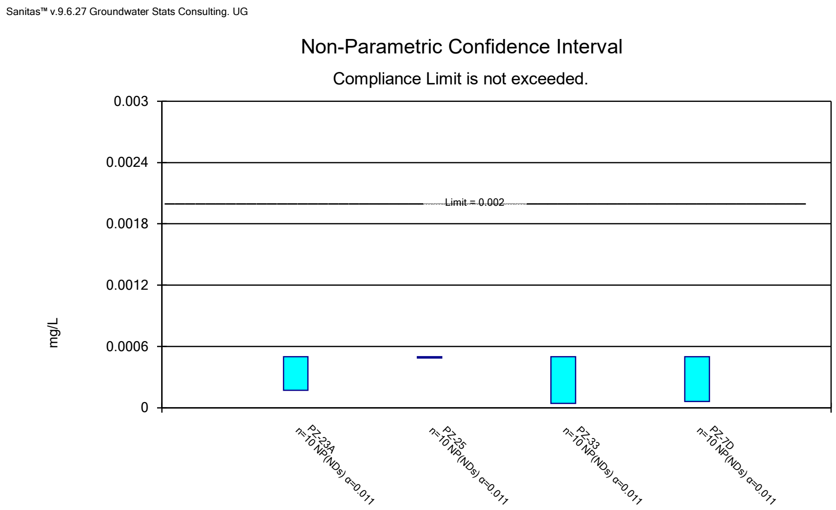
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

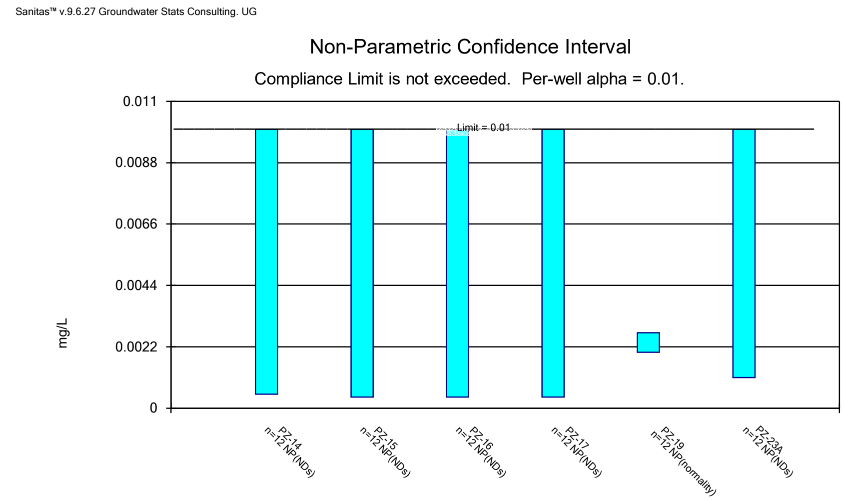


Constituent: Mercury Analysis Run 12/8/2020 4:05 PM

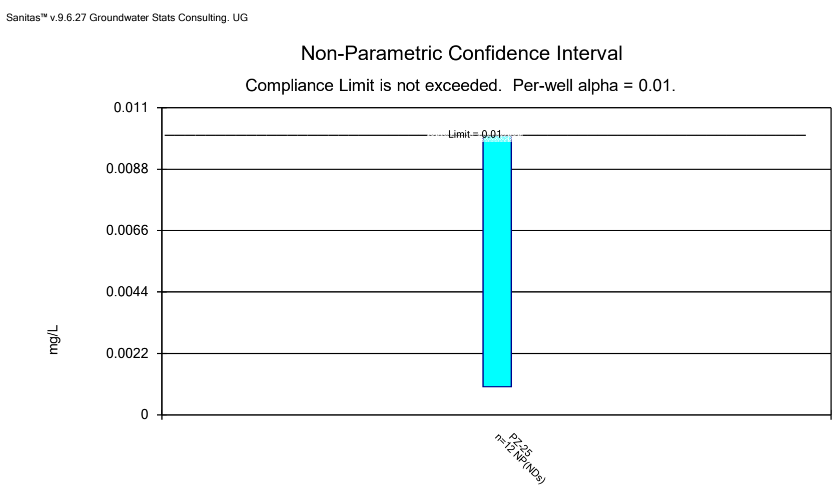
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



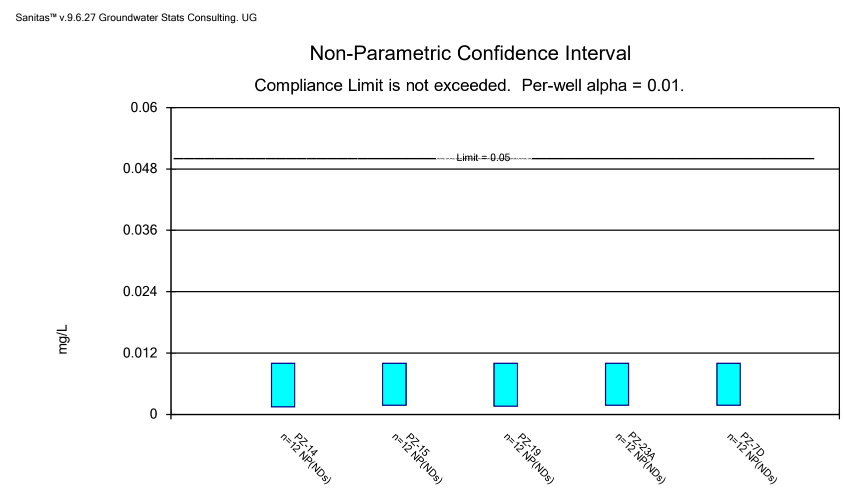
Constituent: Mercury Analysis Run 12/8/2020 4:05 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Molybdenum Analysis Run 12/8/2020 4:05 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Molybdenum Analysis Run 12/8/2020 4:05 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

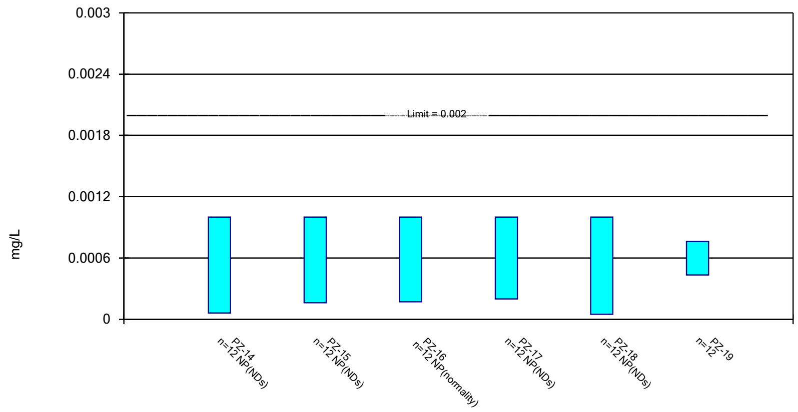


Constituent: Selenium Analysis Run 12/8/2020 4:05 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 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.



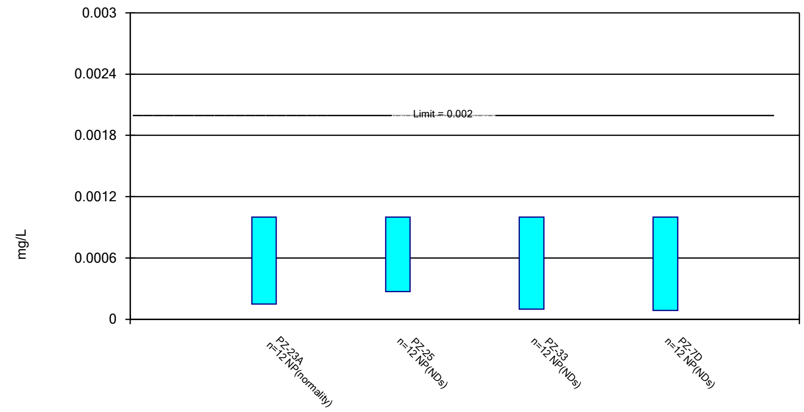
Constituent: Thallium Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

GROUNDWATER STATS
CONSULTING

July 27, 2021

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Mitchell Ash Pond
March 2021 Semi-Annual Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the March 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. Since the new well PZ-23A was installed in close proximity to well PZ-23, the data from the two wells were combined. Well PZ-23A was first sampled during the March 2020 event.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Groundwater Statistician and Founder of Groundwater Stats Consulting.

The 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. Additionally, when Appendix IV constituents are not detected during a scheduled Scan event, no statistical analyses are required during the semi-annual sample event. During the annual Scan event conducted in August 2020, arsenic, beryllium, and cadmium were not detected; therefore, they were not required to be sampled during the March 2021 event. Those three constituents were included on time series and box plots, but were not included in statistical analyses. For all constituents, a substitution of the most recent reporting limit is used for non-detect data.

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 boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- 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 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 and Trend Testing

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.

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.

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 – March 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, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through March 2021 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs).

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-14, PZ-17, PZ-18, PZ-19, PZ-23A, and PZ-7D
- Chloride: PZ-15, PZ-16, PZ-18, and PZ-23A
- pH: PZ-18, PZ-19, PZ-23A, and PZ-7D
- Sulfate: PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, and PZ-7D
- TDS: PZ-17, PZ-18, PZ-19, PZ-23A, and PZ-7D

Note that while the Sanitas software did not identify an exceedance of boron in well PZ-14 because the measurement was a reported trace (or estimated) value, the concentration of 0.028(J) mg/L slightly exceeded its respective prediction limit of 0.027 mg/L. 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-14, PZ-18, and PZ-31 (upgradient)
- Sulfate: PZ-14 and PZ-23A
- TDS: PZ-23A

Decreasing:

- Boron: PZ-7D
- Chloride: PZ-16, PZ-31 (upgradient)
- Sulfate: PZ-16, PZ-25, PZ-31 (upgradient), and PZ-33

Statistical Analysis of Appendix IV Parameters – March 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 that have 100% ND or trace values below the reporting limits 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).

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through March 2021 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. The background limits were then used when determining the groundwater protection standard (GWPS) under 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 March 2021 sample event according to the state rules (Figure G). 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, arsenic, beryllium, and cadmium did not require confidence intervals. 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,

A Collins

Andrew T. Collins
Project Manager

Kristina Rayner

Kristina L. Rayner
Groundwater Statistician

100% Non-Detects

Analysis Run 4/6/2021 11:52 AM   View: Appendix IV - Confidence Intervals
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

Interwell Prediction Limits - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 3/29/2021, 1:59 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**	**0.02674**	**n/a**	**3/4/2021**	**0.16**	**Yes**	**52**	**-4.33**	**0.3495**	**3.846**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-16**	**0.02674**	**n/a**	**3/4/2021**	**0.2**	**Yes**	**52**	**-4.33**	**0.3495**	**3.846**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-17**	**0.02674**	**n/a**	**3/4/2021**	**0.22**	**Yes**	**52**	**-4.33**	**0.3495**	**3.846**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-18**	**0.02674**	**n/a**	**3/4/2021**	**0.37**	**Yes**	**52**	**-4.33**	**0.3495**	**3.846**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-19**	**0.02674**	**n/a**	**3/3/2021**	**0.5**	**Yes**	**52**	**-4.33**	**0.3495**	**3.846**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-23A**	**0.02674**	**n/a**	**3/3/2021**	**0.16**	**Yes**	**52**	**-4.33**	**0.3495**	**3.846**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-25**	**0.02674**	**n/a**	**3/3/2021**	**0.2**	**Yes**	**52**	**-4.33**	**0.3495**	**3.846**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-33**	**0.02674**	**n/a**	**3/4/2021**	**0.34**	**Yes**	**52**	**-4.33**	**0.3495**	**3.846**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-7D**	**0.02674**	**n/a**	**3/4/2021**	**0.2**	**Yes**	**52**	**-4.33**	**0.3495**	**3.846**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-14**	**108.3**	**n/a**	**3/3/2021**	**114**	**Yes**	**51**	**55.76**	**25.87**	**1.961**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-17**	**108.3**	**n/a**	**3/4/2021**	**113**	**Yes**	**51**	**55.76**	**25.87**	**1.961**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-18**	**108.3**	**n/a**	**3/4/2021**	**138**	**Yes**	**51**	**55.76**	**25.87**	**1.961**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-19**	**108.3**	**n/a**	**3/3/2021**	**142**	**Yes**	**51**	**55.76**	**25.87**	**1.961**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-23A**	**108.3**	**n/a**	**3/3/2021**	**154**	**Yes**	**51**	**55.76**	**25.87**	**1.961**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-7D**	**108.3**	**n/a**	**3/4/2021**	**122**	**Yes**	**51**	**55.76**	**25.87**	**1.961**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-15**	**4.635**	**n/a**	**3/4/2021**	**6.3**	**Yes**	**52**	**1.758**	**0.1947**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-16**	**4.635**	**n/a**	**3/4/2021**	**5.9**	**Yes**	**52**	**1.758**	**0.1947**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-18**	**4.635**	**n/a**	**3/4/2021**	**5.1**	**Yes**	**52**	**1.758**	**0.1947**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-23A**	**4.635**	**n/a**	**3/3/2021**	**4.7**	**Yes**	**52**	**1.758**	**0.1947**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
pH (SU)	**PZ-18**	**9.48**	**6.96**	**3/4/2021**	**6.91**	**Yes**	**52**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001376**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-19**	**9.48**	**6.96**	**3/3/2021**	**6.78**	**Yes**	**52**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001376**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-23A**	**9.48**	**6.96**	**3/3/2021**	**6.79**	**Yes**	**52**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001376**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-7D**	**9.48**	**6.96**	**3/4/2021**	**6.95**	**Yes**	**52**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001376**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**PZ-14**	**6.62**	**n/a**	**3/3/2021**	**8.8**	**Yes**	**52**	**1.415**	**0.2282**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-15**	**6.62**	**n/a**	**3/4/2021**	**74.1**	**Yes**	**52**	**1.415**	**0.2282**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-16**	**6.62**	**n/a**	**3/4/2021**	**38.9**	**Yes**	**52**	**1.415**	**0.2282**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-17**	**6.62**	**n/a**	**3/4/2021**	**66.8**	**Yes**	**52**	**1.415**	**0.2282**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-18**	**6.62**	**n/a**	**3/4/2021**	**88.6**	**Yes**	**52**	**1.415**	**0.2282**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-19**	**6.62**	**n/a**	**3/3/2021**	**80.8**	**Yes**	**52**	**1.415**	**0.2282**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-23A**	**6.62**	**n/a**	**3/3/2021**	**66**	**Yes**	**52**	**1.415**	**0.2282**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-25**	**6.62**	**n/a**	**3/3/2021**	**39.2**	**Yes**	**52**	**1.415**	**0.2282**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-33**	**6.62**	**n/a**	**3/4/2021**	**49.3**	**Yes**	**52**	**1.415**	**0.2282**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-7D**	**6.62**	**n/a**	**3/4/2021**	**49.7**	**Yes**	**52**	**1.415**	**0.2282**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-17**	**311.1**	**n/a**	**3/4/2021**	**325**	**Yes**	**52**	**173.5**	**67.92**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-18**	**311.1**	**n/a**	**3/4/2021**	**427**	**Yes**	**52**	**173.5**	**67.92**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-19**	**311.1**	**n/a**	**3/3/2021**	**452**	**Yes**	**52**	**173.5**	**67.92**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-23A**	**311.1**	**n/a**	**3/3/2021**	**444**	**Yes**	**52**	**173.5**	**67.92**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-7D**	**311.1**	**n/a**	**3/4/2021**	**335**	**Yes**	**52**	**173.5**	**67.92**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**

Interwell Prediction Limits - All Results

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 3/29/2021, 1:59 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	0.02674	n/a	3/3/2021	0.028J	No	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-15	0.02674	n/a	3/4/2021	0.16	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02674	n/a	3/4/2021	0.2	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02674	n/a	3/4/2021	0.22	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02674	n/a	3/4/2021	0.37	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02674	n/a	3/3/2021	0.5	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02674	n/a	3/3/2021	0.16	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02674	n/a	3/3/2021	0.2	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02674	n/a	3/4/2021	0.34	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02674	n/a	3/4/2021	0.2	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-14	108.3	n/a	3/3/2021	114	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-15	108.3	n/a	3/4/2021	107	No	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-16	108.3	n/a	3/4/2021	90.9	No	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-17	108.3	n/a	3/4/2021	113	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	108.3	n/a	3/4/2021	138	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	108.3	n/a	3/3/2021	142	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	108.3	n/a	3/3/2021	154	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-25	108.3	n/a	3/3/2021	96.8	No	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-33	108.3	n/a	3/4/2021	106	No	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-7D	108.3	n/a	3/4/2021	122	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-14	4.635	n/a	3/3/2021	4.2	No	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	4.635	n/a	3/4/2021	6.3	Yes	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-16	4.635	n/a	3/4/2021	5.9	Yes	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-17	4.635	n/a	3/4/2021	4.2	No	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.635	n/a	3/4/2021	5.1	Yes	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-19	4.635	n/a	3/3/2021	4	No	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-23A	4.635	n/a	3/3/2021	4.7	Yes	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-25	4.635	n/a	3/3/2021	1.6	No	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-33	4.635	n/a	3/4/2021	1.8	No	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-7D	4.635	n/a	3/4/2021	4	No	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	3/3/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	3/4/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	3/4/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	3/4/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	3/4/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	3/3/2021	0.058J	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	3/3/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	3/3/2021	0.12	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	3/4/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	3/4/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
pH (SU)	PZ-14	9.48	6.96	3/3/2021	6.99	No	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-15	9.48	6.96	3/4/2021	7.09	No	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-16	9.48	6.96	3/4/2021	7.34	No	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	3/4/2021	7.09	No	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	3/4/2021	6.91	Yes	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	3/3/2021	6.78	Yes	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	3/3/2021	6.79	Yes	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-25	9.48	6.96	3/3/2021	7.04	No	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	3/4/2021	7.22	No	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	3/4/2021	6.95	Yes	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	6.62	n/a	3/3/2021	8.8	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	6.62	n/a	3/4/2021	74.1	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	6.62	n/a	3/4/2021	38.9	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	6.62	n/a	3/4/2021	66.8	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	6.62	n/a	3/4/2021	88.6	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	6.62	n/a	3/3/2021	80.8	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	6.62	n/a	3/3/2021	66	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	6.62	n/a	3/3/2021	39.2	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	6.62	n/a	3/4/2021	49.3	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	6.62	n/a	3/4/2021	49.7	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-14	311.1	n/a	3/3/2021	258	No	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-15	311.1	n/a	3/4/2021	300	No	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-16	311.1	n/a	3/4/2021	264	No	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	311.1	n/a	3/4/2021	325	Yes	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	311.1	n/a	3/4/2021	427	Yes	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	311.1	n/a	3/3/2021	452	Yes	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	311.1	n/a	3/3/2021	444	Yes	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-25	311.1	n/a	3/3/2021	267	No	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-33	311.1	n/a	3/4/2021	283	No	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-7D	311.1	n/a	3/4/2021	335	Yes	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 4/7/2021, 9:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-7D	-0.04161	-52	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-14	4.461	57	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-18	5.393	49	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-31 (bg)	2.947	45	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-16	-0.328	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-31 (bg)	-0.4113	-53	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-14	1.83	55	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-16	-2.833	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-23A	6.884	68	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-25	-3.09	-50	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-31 (bg)	-1.26	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-33	-11.71	-66	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-23A	14.87	50	43	Yes	13	0	n/a	n/a	0.01	NP

Trend Tests - Prediction Limit Exceedances - All Results

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 4/7/2021, 9:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-14	0.0005318	9	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-15	-0.00655	-22	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0.002283	11	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-17	0.000899	3	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-18	0.003034	13	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.02363	-22	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.00004716	1	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-23A	0	-2	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.002954	-15	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-2D (bg)	-0.0005962	-12	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-31 (bg)	-0.001685	-31	-43	No	13	7.692	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	0.0001928	5	43	No	13	7.692	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-33	-0.01081	-42	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-7D**	**-0.04161**	**-52**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-14**	**4.461**	**57**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-17	2.602	29	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-18**	**5.393**	**49**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-19	1.408	16	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-1D (bg)	1.944	38	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-23A	4.923	37	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	5.858	32	43	No	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-31 (bg)**	**2.947**	**45**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-32 (bg)	1.7	32	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-7D	4.55	41	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.1368	-19	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-16**	**-0.328**	**-44**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-18	-0.2815	-42	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-1D (bg)	-0.0626	-22	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-23A	-0.09968	-11	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	-0.0439	-12	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-31 (bg)**	**-0.4113**	**-53**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-32 (bg)	-0.2364	-41	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-18	-0.006518	-14	-48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.009682	15	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-1D (bg)	-0.02468	-19	-48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.01518	19	48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.3577	-14	-25	No	9	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	0	0	48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	-0.004097	-4	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-7D	0.01185	10	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-14**	**1.83**	**55**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-15	1.847	28	43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-16**	**-2.833**	**-44**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-17	-2.368	-19	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-18	-1.301	-13	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-19	-1.389	-33	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-1D (bg)	0.07697	14	43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-23A**	**6.884**	**68**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-3.09**	**-50**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-2D (bg)	-0.8052	-38	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-31 (bg)**	**-1.26**	**-55**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-32 (bg)	0.03023	12	43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-33**	**-11.71**	**-66**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-7D	-1.488	-23	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-17	-11.39	-26	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-18	-0.4574	-1	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-19	-12.76	-28	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-1D (bg)	4.77	19	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	**PZ-23A**	**14.87**	**50**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	PZ-2D (bg)	15.92	32	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-31 (bg)	0.3259	3	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-32 (bg)	1.218	11	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-7D	-11.45	-26	-43	No	13	0	n/a	n/a	0.01	NP

Upper Tolerance Limits

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 4/6/2021, 11:44 AM

Constituent	Upper Lim.	Lower Lim.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0035	n/a	n/a	52	n/a	n/a	53.85	n/a	n/a	0.06944	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	44	n/a	n/a	86.36	n/a	n/a	0.1047	NP Inter(NDs)
Barium (mg/L)	0.05465	n/a	n/a	52	-4.334	0.6953	1.923	None	ln(x)	0.05	Inter
Beryllium (mg/L)	0.003	n/a	n/a	36	n/a	n/a	94.44	n/a	n/a	0.1578	NP Inter(NDs)
Cadmium (mg/L)	0.0025	n/a	n/a	36	n/a	n/a	100	n/a	n/a	0.1578	NP Inter(NDs)
Chromium (mg/L)	0.011	n/a	n/a	52	n/a	n/a	25	n/a	n/a	0.06944	NP Inter(normality)
Cobalt (mg/L)	0.005	n/a	n/a	52	n/a	n/a	96.15	n/a	n/a	0.06944	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.754	n/a	n/a	50	0.7553	0.2755	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.29	n/a	n/a	56	n/a	n/a	46.43	n/a	n/a	0.05656	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	52	n/a	n/a	75	n/a	n/a	0.06944	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	52	n/a	n/a	80.77	n/a	n/a	0.06944	NP Inter(NDs)
Mercury (mg/L)	0.0002	n/a	n/a	44	n/a	n/a	90.91	n/a	n/a	0.1047	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	n/a	52	n/a	n/a	78.85	n/a	n/a	0.06944	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	52	n/a	n/a	88.46	n/a	n/a	0.06944	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	0.003	0.004
Cadmium, Total (mg/L)	0.005	0.0025	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	1.75	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 4/6/2021, 11:53 AM

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	13	0.0028	0.0007211	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-15	0.003	0.001	0.006	No	13	0.002663	0.0008261	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-16	0.003	0.00037	0.006	No	13	0.002798	0.0007294	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-17	0.003	0.00061	0.006	No	13	0.002469	0.001012	76.92	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-18	0.003	0.0018	0.006	No	13	0.002785	0.000532	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-19	0.003	0.00044	0.006	No	13	0.002803	0.00071	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-23A	0.003	0.0017	0.006	No	13	0.002698	0.0007838	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-33	0.003	0.00037	0.006	No	13	0.002798	0.0007294	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-7D	0.003	0.00031	0.006	No	13	0.002386	0.001167	76.92	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-14	0.03495	0.0183	2	No	13	0.0273	0.01343	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	PZ-15	0.0781	0.048	2	No	13	0.06069	0.01632	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-16	0.0689	0.035	2	No	13	0.04507	0.01382	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-17	0.08025	0.07318	2	No	13	0.07672	0.004758	0	None	No	0.01	Param.
Barium (mg/L)	PZ-18	0.0513	0.023	2	No	13	0.03069	0.01444	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-19	0.05974	0.05301	2	No	13	0.05638	0.004526	0	None	No	0.01	Param.
Barium (mg/L)	PZ-23A	0.05362	0.03716	2	No	13	0.04539	0.01107	0	None	No	0.01	Param.
Barium (mg/L)	PZ-25	0.1097	0.09963	2	No	13	0.1047	0.006781	0	None	No	0.01	Param.
Barium (mg/L)	PZ-33	0.0752	0.0553	2	No	12	0.06525	0.01269	0	None	No	0.01	Param.
Barium (mg/L)	PZ-7D	0.01047	0.007113	2	No	13	0.008792	0.002259	0	None	No	0.01	Param.
Chromium (mg/L)	PZ-14	0.005	0.00098	0.1	No	13	0.003796	0.001881	69.23	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-16	0.005	0.0008	0.1	No	13	0.003132	0.00211	53.85	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-18	0.005	0.00056	0.1	No	13	0.004658	0.001231	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-19	0.005	0.00073	0.1	No	13	0.004672	0.001184	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-23A	0.002277	0.001213	0.1	No	13	0.002592	0.001611	23.08	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	PZ-33	0.005	0.0017	0.1	No	13	0.004746	0.0009153	92.31	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-7D	0.005	0.0005	0.1	No	13	0.002762	0.001979	38.46	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-14	0.005	0.002	0.005	No	13	0.004408	0.001487	84.62	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-15	0.005	0.0004	0.005	No	13	0.003308	0.002237	61.54	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-16	0.005	0.0005	0.005	No	13	0.004654	0.001248	92.31	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-17	0.005	0.0005	0.005	No	13	0.002971	0.002288	53.85	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-18	0.005	0.0011	0.005	No	13	0.0047	0.001082	92.31	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-19	0.005	0.0012	0.005	No	13	0.004392	0.001485	84.62	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-23A	0.005	0.00049	0.005	No	13	0.003295	0.002247	61.54	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-25	0.0018	0.0008	0.005	No	13	0.001504	0.001113	7.692	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-33	0.005	0.00053	0.005	No	13	0.003295	0.002117	53.85	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-14	1.073	0.3087	5	No	13	0.7294	0.596	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-15	1.117	0.6519	5	No	13	0.8999	0.362	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-16	0.9047	0.4507	5	No	13	0.6908	0.3294	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-17	1.298	0.6704	5	No	12	0.9842	0.3999	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-18	1.351	0.4742	5	No	11	0.9126	0.5261	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-19	1.417	0.7215	5	No	13	1.069	0.4678	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-23A	1.297	0.7891	5	No	13	1.043	0.3415	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-25	1.253	0.7952	5	No	13	1.024	0.3079	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-33	1.099	0.6208	5	No	13	0.8602	0.3218	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-7D	0.6435	0.1816	5	No	13	0.4362	0.3593	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-14	0.11	0.056	4	No	14	0.08971	0.0255	57.14	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-15	0.134	0.07109	4	No	14	0.111	0.04821	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-16	0.1	0.05	4	No	14	0.08307	0.02496	57.14	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-17	0.1497	0.05733	4	No	14	0.1269	0.06633	35.71	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-18	0.1109	0.05757	4	No	14	0.1028	0.0362	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-19	0.1453	0.07083	4	No	14	0.1171	0.0809	14.29	None	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-23A	0.09698	0.04907	4	No	14	0.1009	0.06363	35.71	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-25	0.2598	0.1559	4	No	14	0.2079	0.07329	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-33	0.15	0.06	4	No	14	0.1071	0.04576	57.14	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-7D	0.15	0.045	4	No	14	0.089	0.0326	64.29	None	No	0.01	NP (NDs)

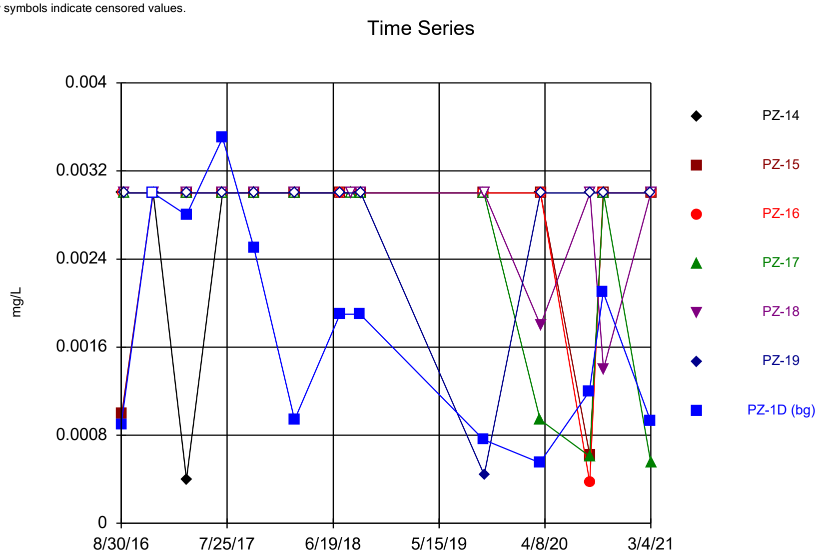
Confidence Intervals - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 4/6/2021, 11:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	PZ-15	0.001	0.00005	0.001	No	13	0.0009269	0.0002635	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-16	0.001	0.000081	0.001	No	13	0.0009293	0.0002549	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-18	0.001	0.00043	0.001	No	13	0.0008825	0.0002976	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-19	0.001	0.000042	0.001	No	13	0.0009263	0.0002657	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-23A	0.001	0.000058	0.001	No	13	0.0007888	0.0004019	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-33	0.001	0.00009	0.001	No	13	0.0008567	0.0003499	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-7D	0.001	0.000041	0.001	No	13	0.0009262	0.000266	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14	0.03	0.003	0.03	No	13	0.02792	0.007488	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-15	0.03	0.0012	0.03	No	13	0.01233	0.01454	38.46	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-17	0.003	0.002	0.03	No	13	0.006662	0.01036	15.38	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-18	0.003	0.0024	0.03	No	13	0.006885	0.01026	15.38	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-19	0.01473	0.009886	0.03	No	13	0.01231	0.003257	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-23A	0.03	0.001	0.03	No	13	0.02109	0.01391	69.23	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-25	0.006713	0.005314	0.03	No	13	0.005969	0.001051	0	None	x^2	0.01	Param.
Lithium (mg/L)	PZ-7D	0.0038	0.0023	0.03	No	13	0.004931	0.00755	7.692	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-14	0.0002	0.00015	0.002	No	11	0.0001836	0.00004056	81.82	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-15	0.0002	0.0002	0.002	No	11	0.0001906	0.00003106	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-16	0.0002	0.0002	0.002	No	11	0.000188	0.0000398	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-17	0.0002	0.0002	0.002	No	11	0.0001896	0.00003437	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-18	0.0002	0.0002	0.002	No	11	0.000187	0.00004312	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-19	0.0002	0.0001	0.002	No	11	0.0001768	0.00005302	81.82	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-23A	0.0002	0.00017	0.002	No	11	0.0001873	0.00003349	81.82	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-25	0.0002	0.0002	0.002	No	11	0.0001866	0.00004432	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-33	0.0002	0.000043	0.002	No	11	0.0001631	0.00006561	72.73	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-7D	0.0002	0.00006	0.002	No	11	0.0001739	0.00005807	81.82	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	PZ-14	0.01	0.0005	0.01	No	13	0.009269	0.002635	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-15	0.01	0.0004	0.01	No	13	0.009262	0.002663	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-16	0.01	0.0004	0.01	No	13	0.009262	0.002663	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-17	0.01	0.0004	0.01	No	13	0.009262	0.002663	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-19	0.0027	0.002	0.01	No	13	0.002823	0.002167	7.692	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-23A	0.01	0.0011	0.01	No	13	0.008592	0.003438	84.62	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-25	0.01	0.001	0.01	No	13	0.009308	0.002496	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-14	0.005	0.0015	0.05	No	13	0.004438	0.001372	84.62	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-15	0.005	0.0018	0.05	No	13	0.004754	0.0008875	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-19	0.005	0.0016	0.05	No	13	0.003954	0.001319	53.85	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-23A	0.005	0.0018	0.05	No	13	0.003769	0.001438	53.85	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-7D	0.005	0.0018	0.05	No	13	0.004254	0.001418	76.92	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-14	0.001	0.00006	0.002	No	13	0.0009277	0.0002607	92.31	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-15	0.001	0.00016	0.002	No	13	0.0006931	0.0004052	61.54	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-16	0.001	0.00017	0.002	No	13	0.0006156	0.0004337	53.85	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-17	0.001	0.0002	0.002	No	13	0.0007092	0.0003862	61.54	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-18	0.001	0.00005	0.002	No	13	0.0007816	0.000415	76.92	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-19	0.0007588	0.0004551	0.002	No	13	0.0006069	0.0002042	7.692	None	No	0.01	Param.
Thallium (mg/L)	PZ-23A	0.001	0.00015	0.002	No	13	0.00044	0.0003916	30.77	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-25	0.001	0.00027	0.002	No	13	0.0007392	0.0003452	61.54	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-33	0.001	0.0001	0.002	No	13	0.0006638	0.0004431	61.54	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-7D	0.001	0.000085	0.002	No	13	0.0006587	0.0004503	61.54	None	No	0.01	NP (NDs)

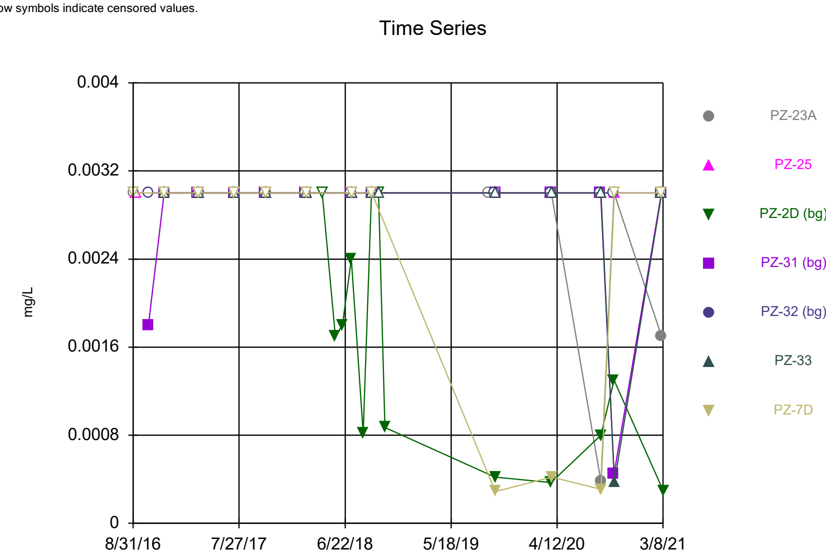
FIGURE A.

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



Constituent: Antimony Analysis Run 4/6/2021 11:34 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



Constituent: Antimony Analysis Run 4/6/2021 11:34 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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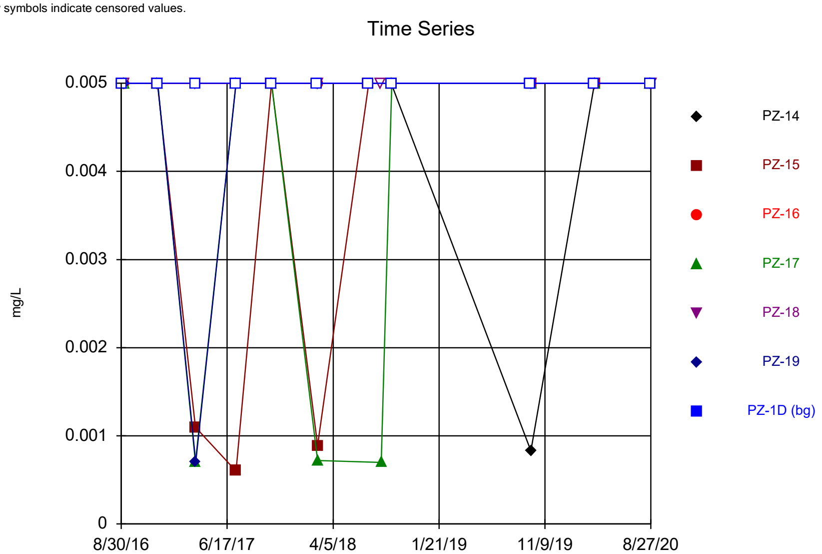

Constituent: Arsenic Analysis Run 4/6/2021 11:34 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
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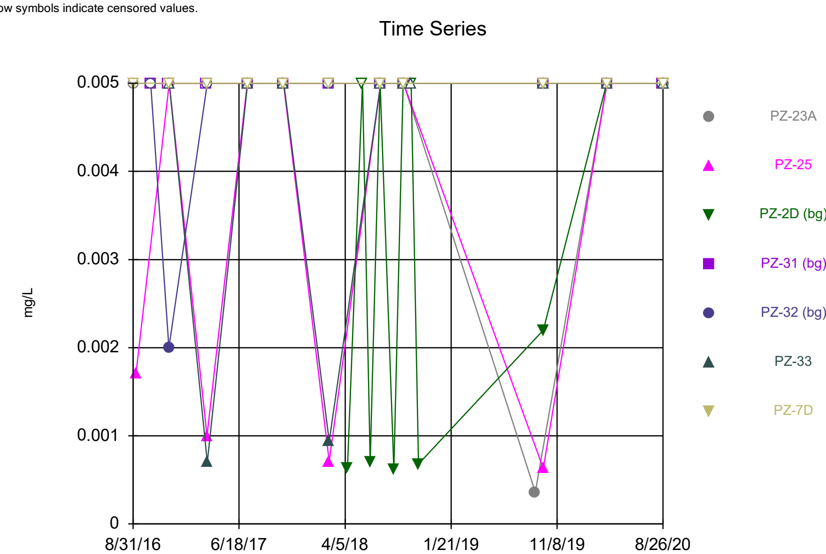

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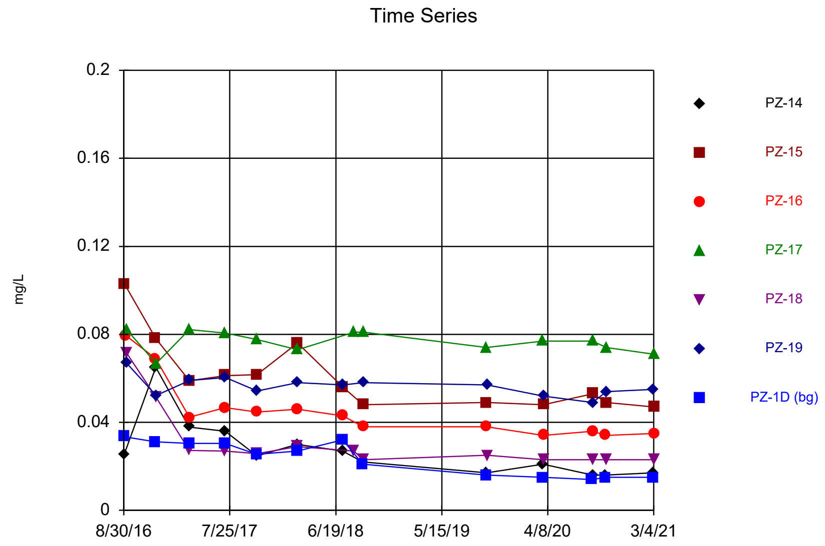
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Barium Analysis Run 4/6/2021 11:34 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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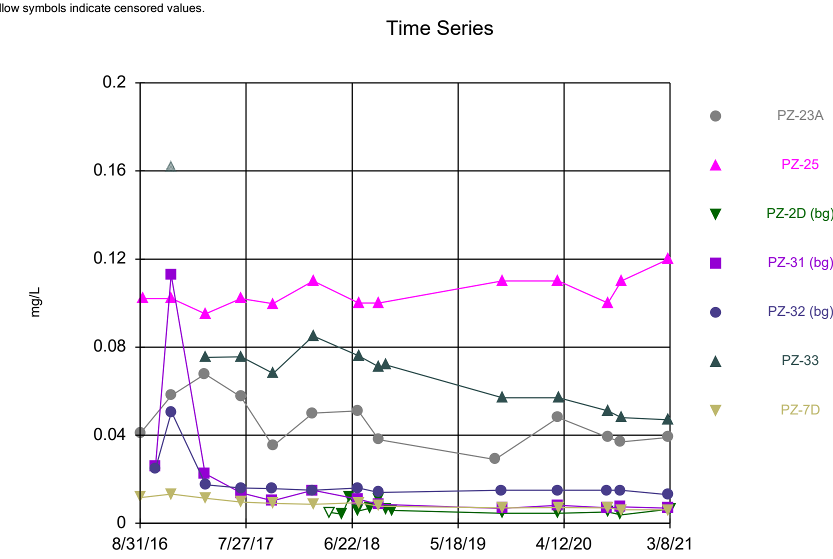

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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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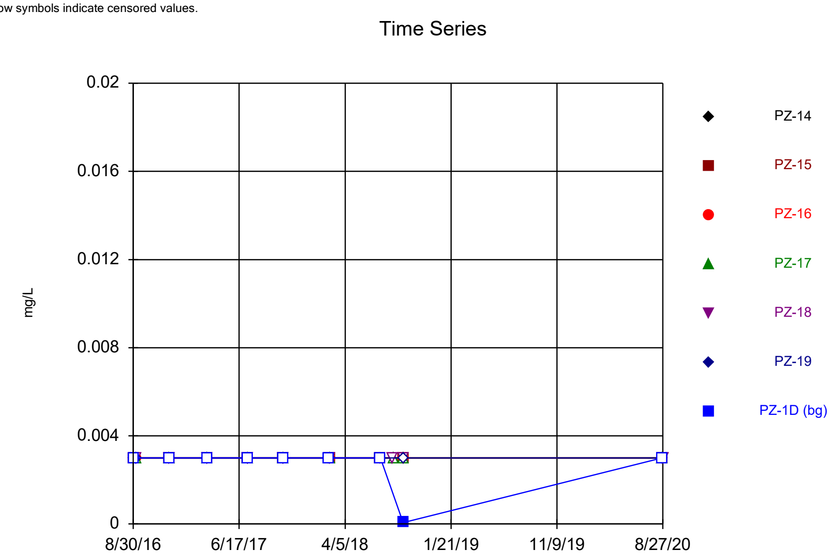
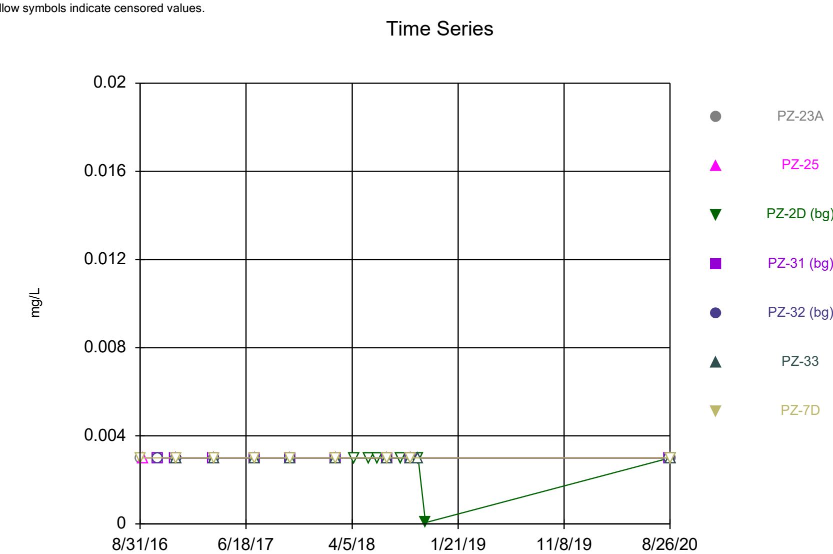


Constituent: Beryllium Analysis Run 4/6/2021 11:34 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Hollow symbols indicate censored values.



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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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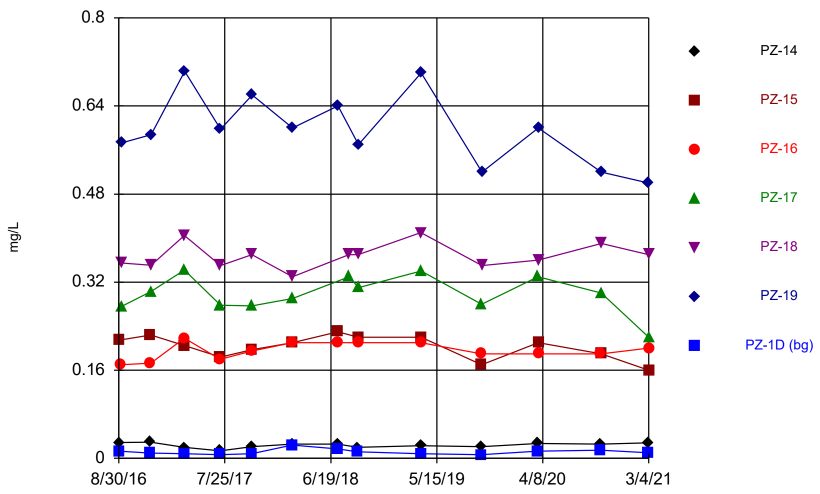

Constituent: Boron Analysis Run 4/6/2021 11:34 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

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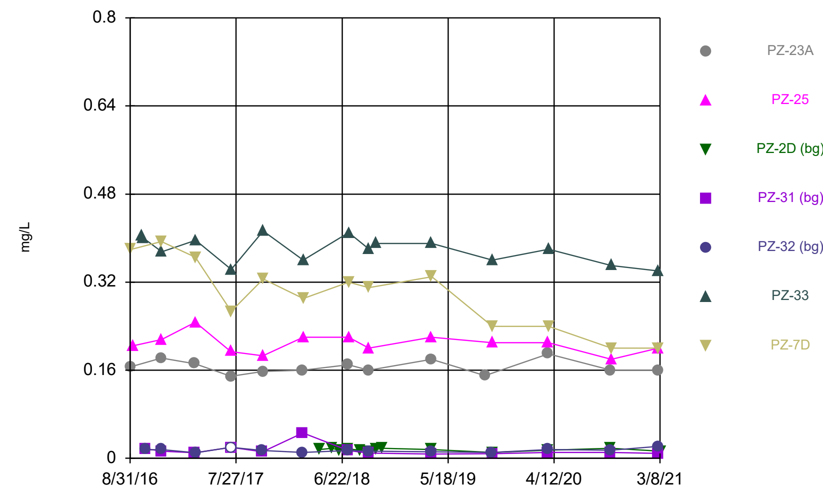
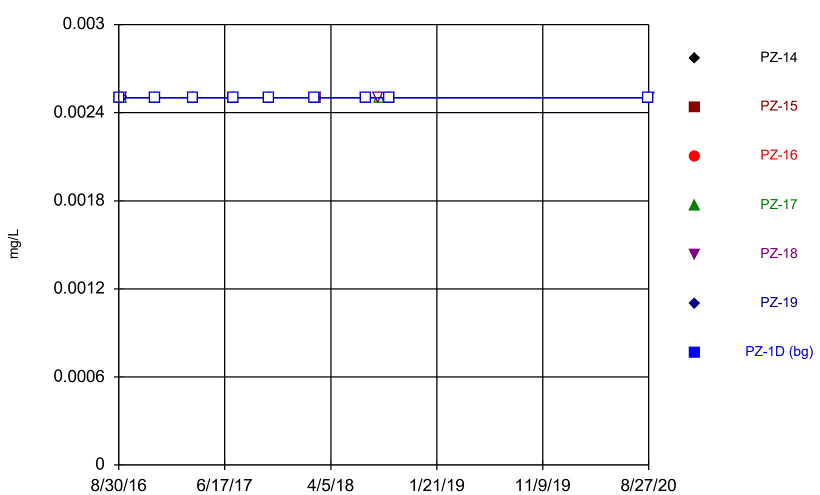


Constituent: Boron Analysis Run 4/6/2021 11:34 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.



Constituent: Cadmium Analysis Run 4/6/2021 11:34 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

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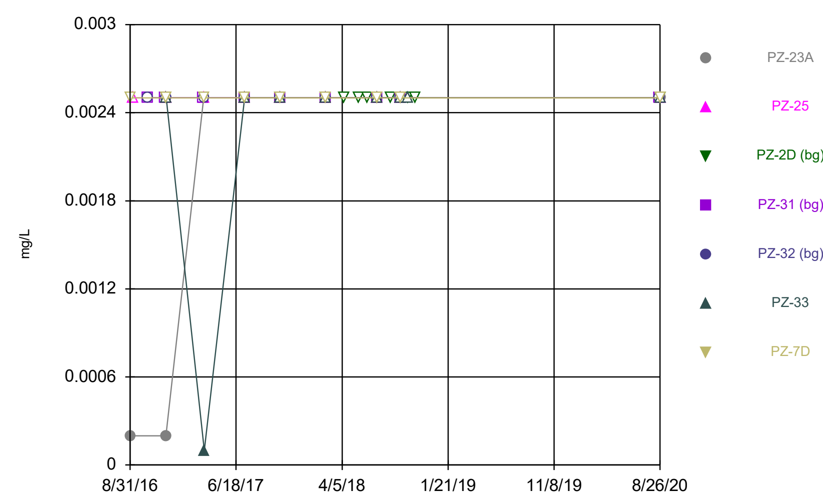
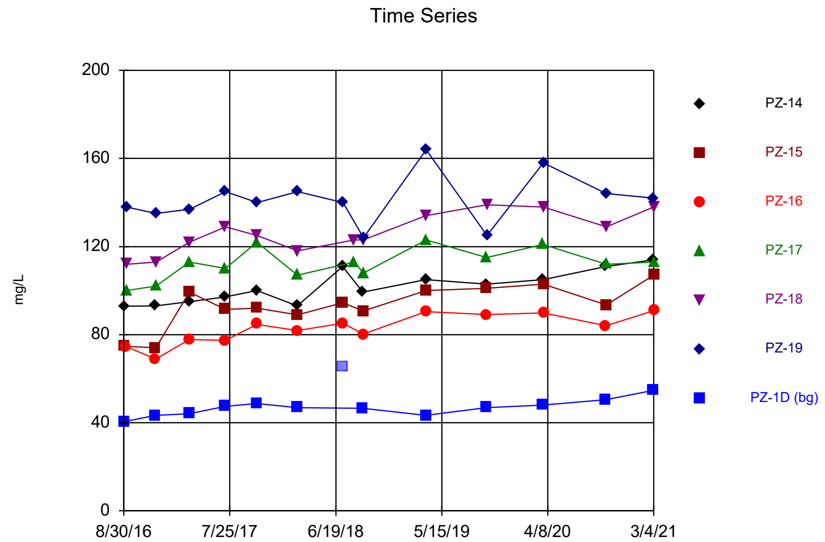


Constituent: Cadmium Analysis Run 4/6/2021 11:34 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

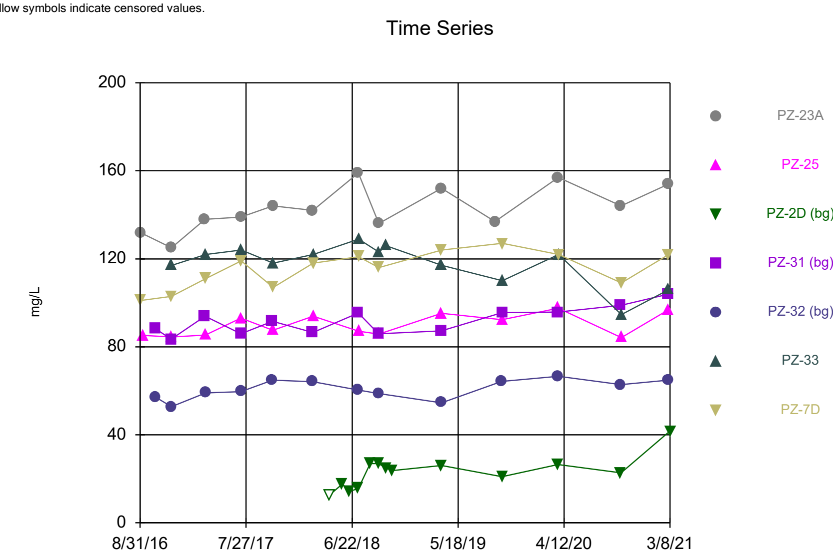
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Calcium Analysis Run 4/6/2021 11:34 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

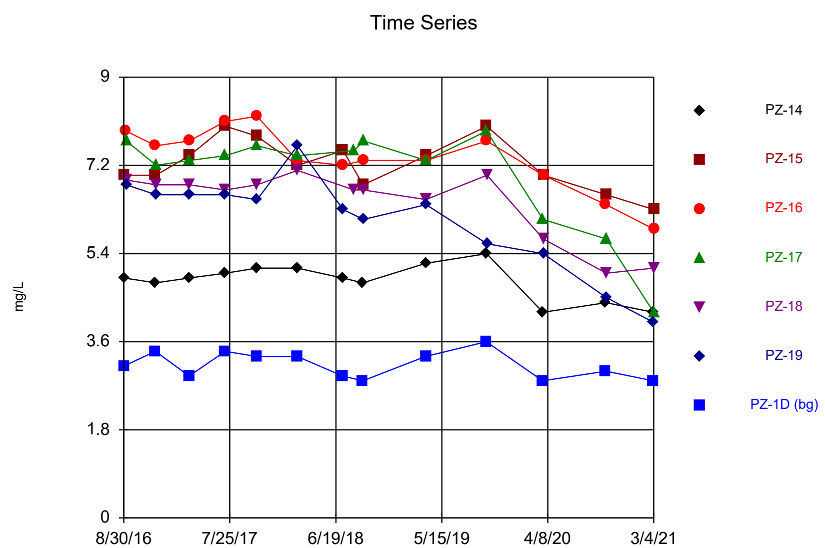
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



Constituent: Calcium Analysis Run 4/6/2021 11:34 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

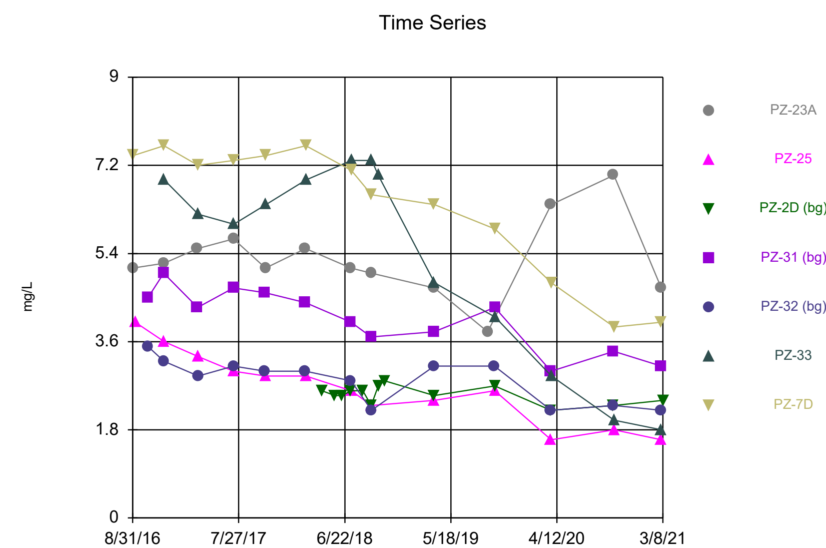
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Chloride Analysis Run 4/6/2021 11:34 AM

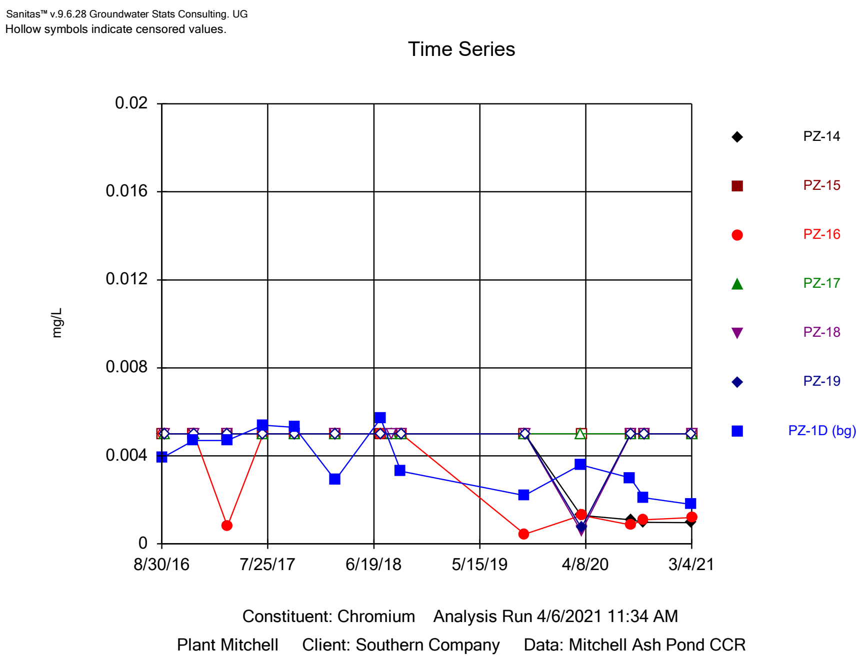
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Chloride Analysis Run 4/6/2021 11:34 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Time Series
mg/L
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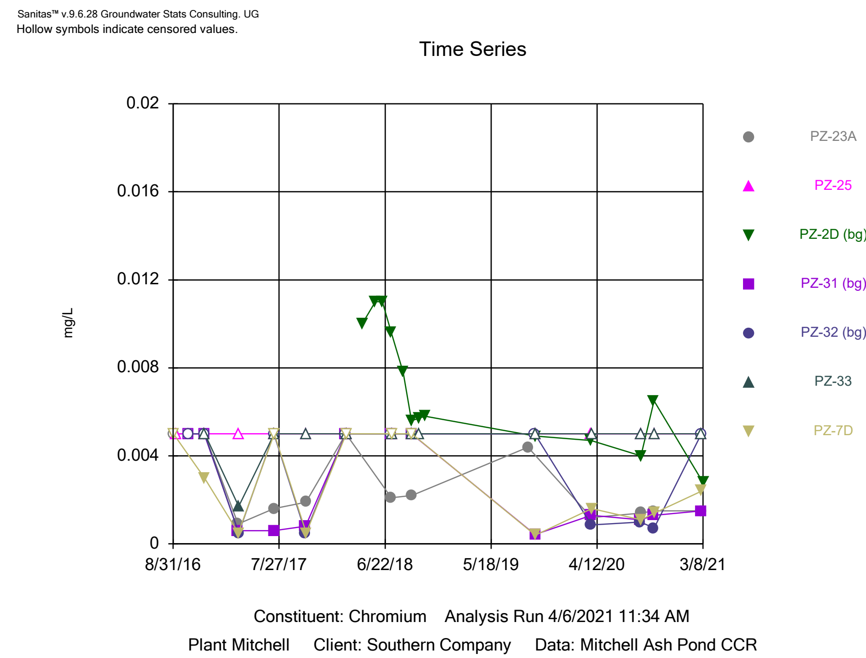
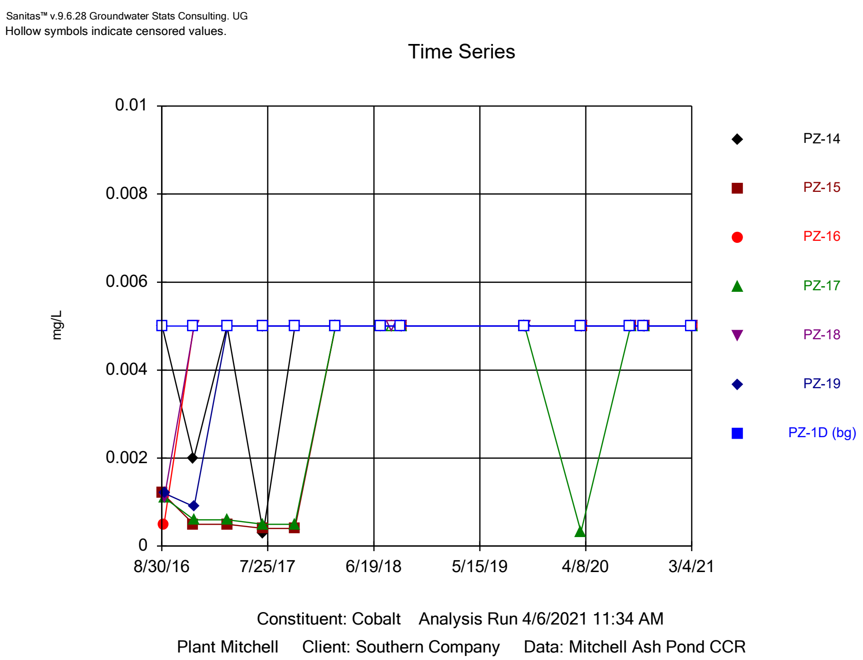
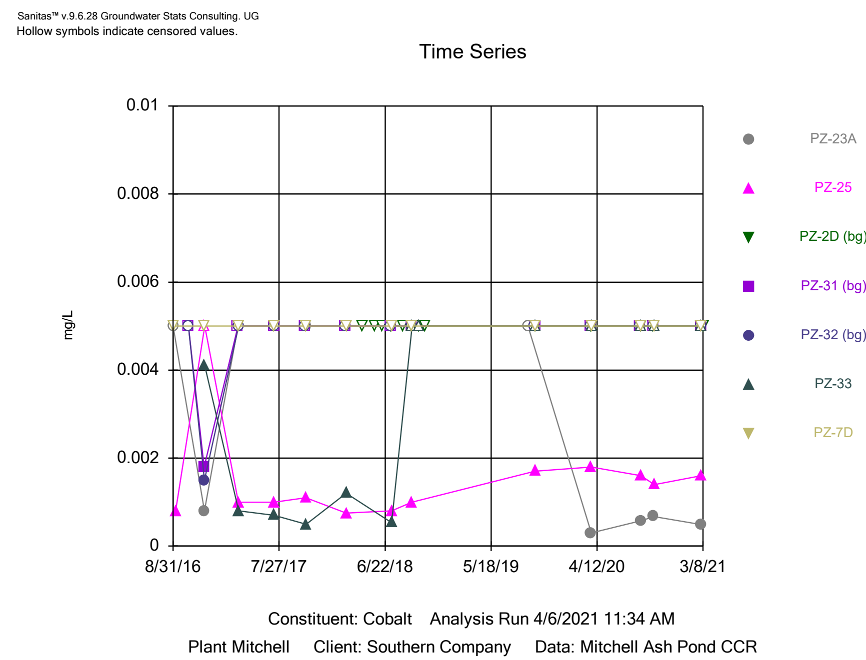
0.012
0.008
0.004
0
8/30/16
7/25/17
6/19/18
5/15/19
4/8/20
3/4/21
PZ-14
PZ-15
PZ-16
PZ-17
PZ-18
PZ-19
PZ-1D (bg)
Constituent: Chromium Analysis Run 4/6/2021 11:34 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

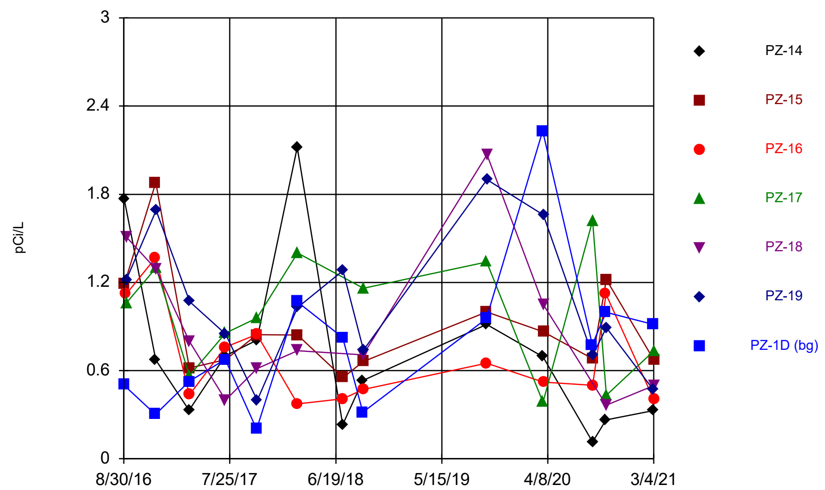

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Time Series
mg/L
0.02
0.016
0.012
0.008
0.004
0
8/31/16
7/27/17
6/22/18
5/18/19
4/12/20
3/8/21
PZ-23A
PZ-25
PZ-2D (bg)
PZ-31 (bg)
PZ-32 (bg)
PZ-33
PZ-7D
Constituent: Chromium Analysis Run 4/6/2021 11:34 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Time Series
mg/L
0.01
0.008
0.006
0.004
0.002
0
8/30/16
7/25/17
6/19/18
5/15/19
4/8/20
3/4/21
PZ-14
PZ-15
PZ-16
PZ-17
PZ-18
PZ-19
PZ-1D (bg)
Constituent: Cobalt Analysis Run 4/6/2021 11:34 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Time Series
mg/L
0.01
0.008
0.006
0.004
0.002
0
8/31/16
7/27/17
6/22/18
5/18/19
4/12/20
3/8/21
PZ-23A
PZ-25
PZ-2D (bg)
PZ-31 (bg)
PZ-32 (bg)
PZ-33
PZ-7D
Constituent: Cobalt Analysis Run 4/6/2021 11:34 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series

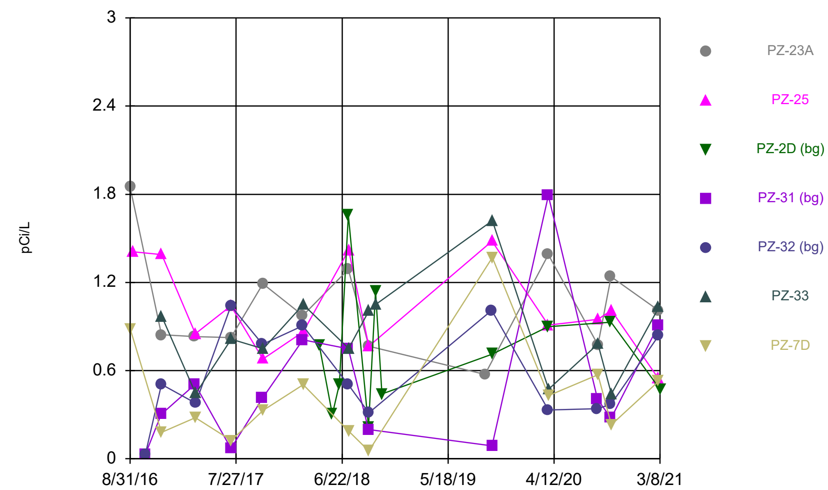


Constituent: Combined Radium 226 + 228 Analysis Run 4/6/2021 11:34 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series

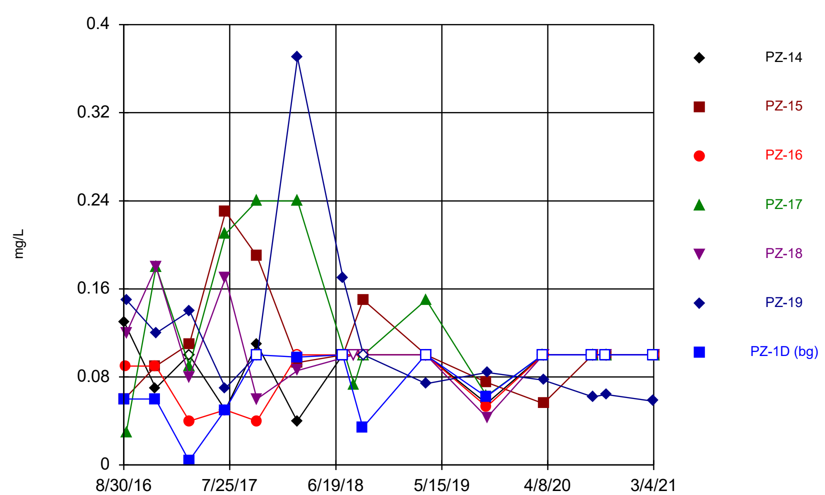


Constituent: Combined Radium 226 + 228 Analysis Run 4/6/2021 11:34 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

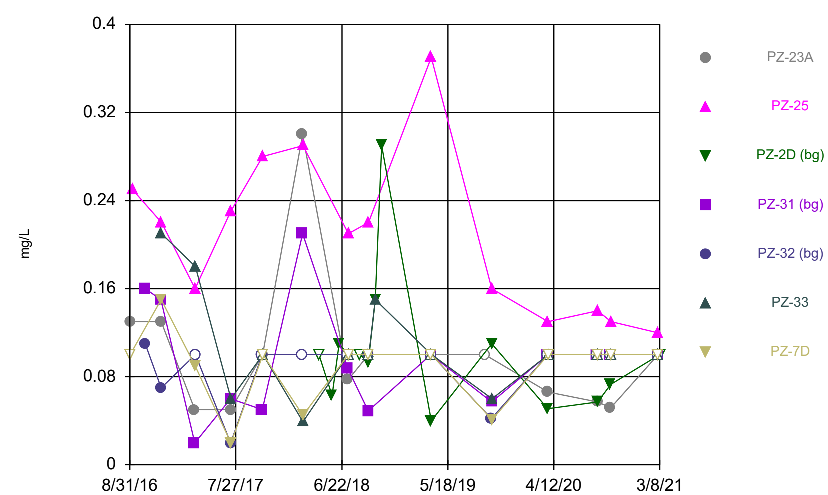


Constituent: Fluoride Analysis Run 4/6/2021 11:34 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

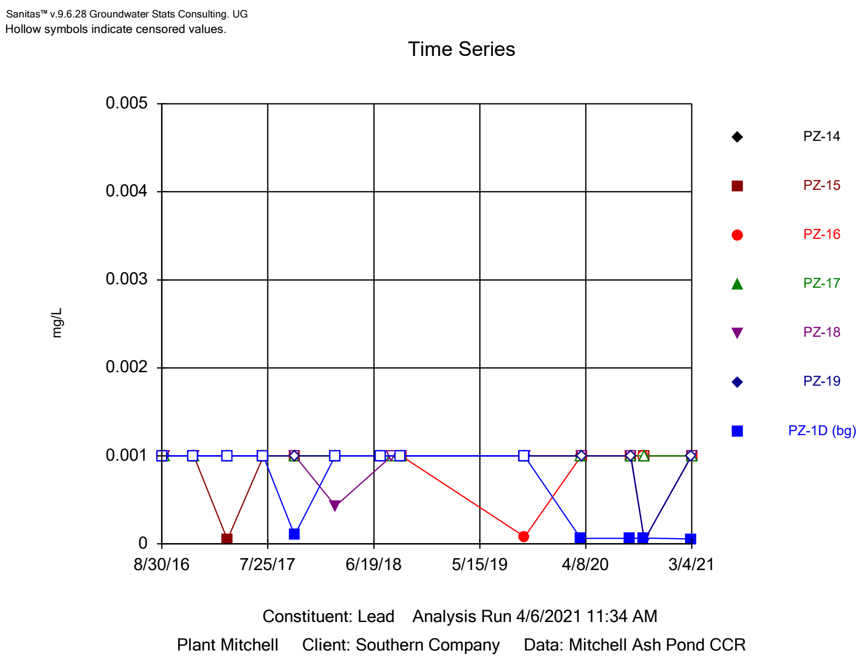
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

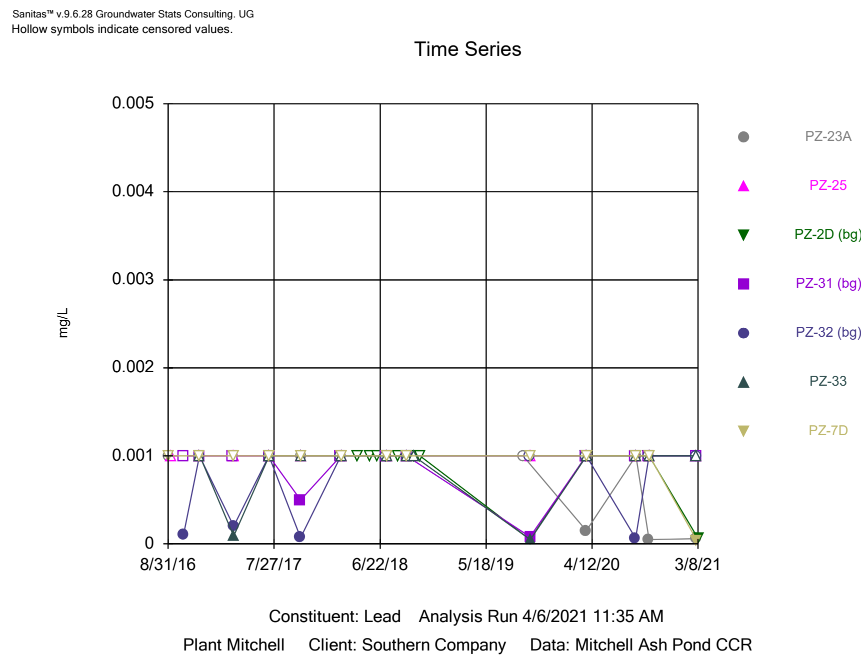


Constituent: Fluoride Analysis Run 4/6/2021 11:34 AM

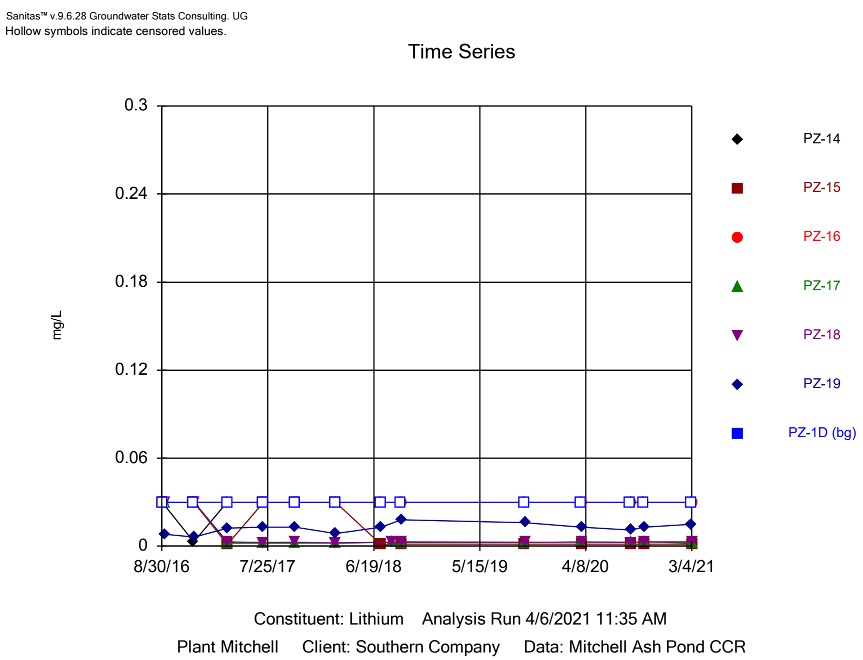
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



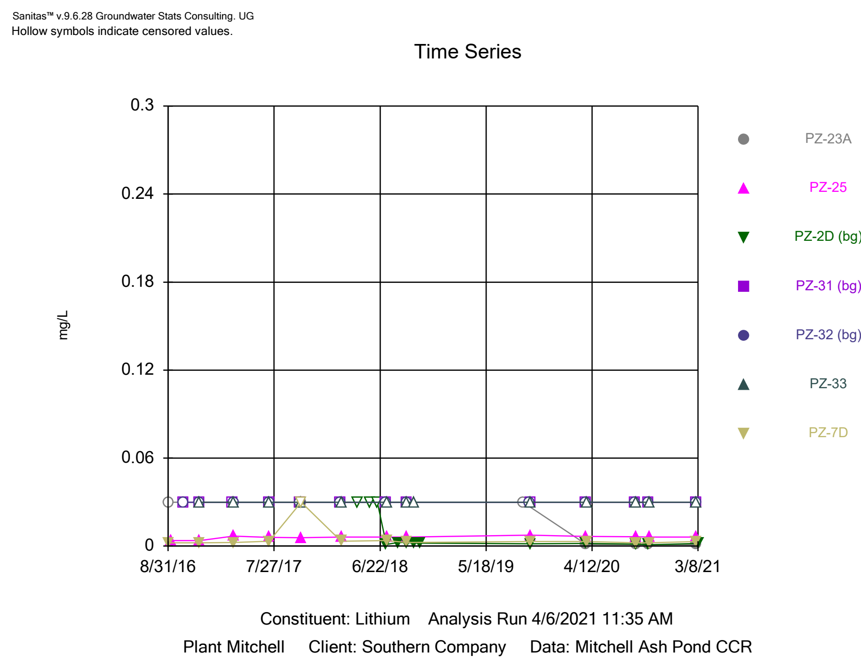
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Time Series
mg/L
0.005
0.004
0.003
0.002
0.001
0
8/30/16
7/25/17
6/19/18
5/15/19
4/8/20
3/4/21
PZ-14
PZ-15
PZ-16
PZ-17
PZ-18
PZ-19
PZ-1D (bg)
Constituent: Lead Analysis Run 4/6/2021 11:34 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Time Series
mg/L
0.005
0.004
0.003
0.002
0.001
0
8/31/16
7/27/17
6/22/18
5/18/19
4/12/20
3/8/21
PZ-23A
PZ-25
PZ-2D (bg)
PZ-31 (bg)
PZ-32 (bg)
PZ-33
PZ-7D
Constituent: Lead Analysis Run 4/6/2021 11:35 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

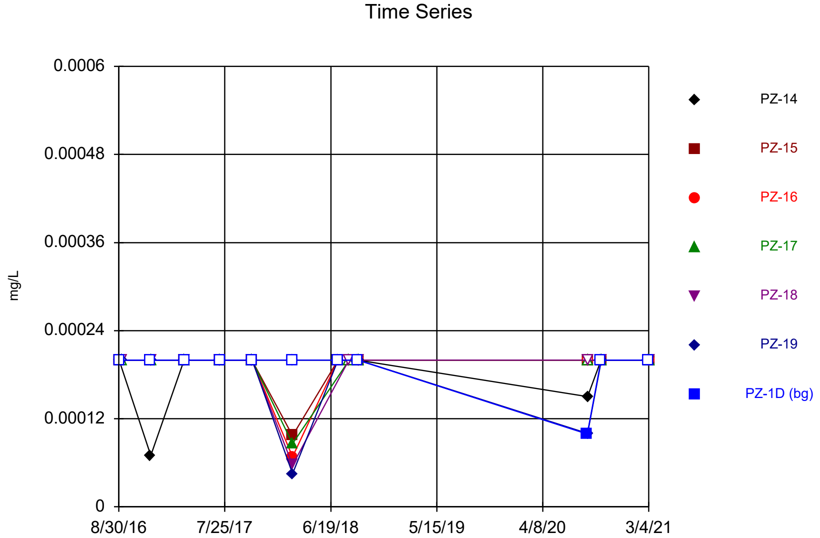


Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Time Series
mg/L
0.3
0.24
0.18
0.12
0.06
0
8/30/16
7/25/17
6/19/18
5/15/19
4/8/20
3/4/21
PZ-14
PZ-15
PZ-16
PZ-17
PZ-18
PZ-19
PZ-1D (bg)
Constituent: Lithium Analysis Run 4/6/2021 11:35 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



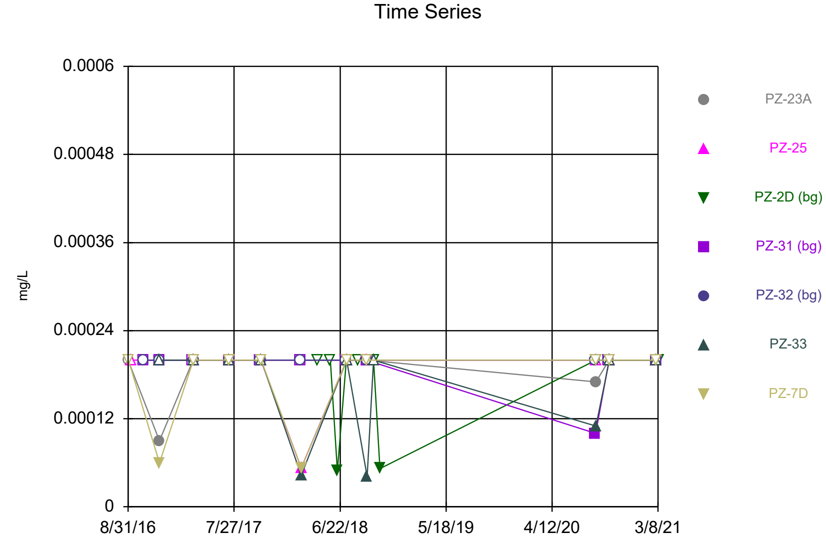
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Time Series
mg/L
0.3
0.24
0.18
0.12
0.06
0
8/31/16
7/27/17
6/22/18
5/18/19
4/12/20
3/8/21
PZ-23A
PZ-25
PZ-2D (bg)
PZ-31 (bg)
PZ-32 (bg)
PZ-33
PZ-7D
Constituent: Lithium Analysis Run 4/6/2021 11:35 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



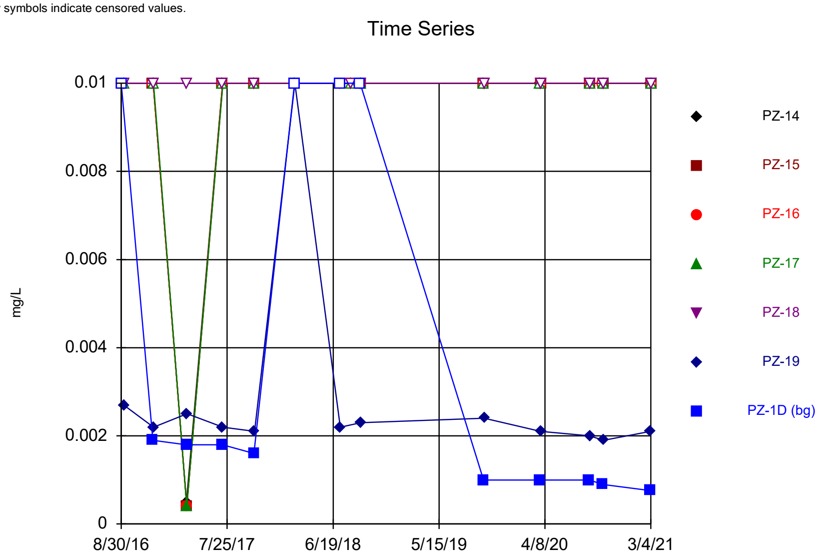
Constituent: Mercury   Analysis Run 4/6/2021 11:35 AM
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



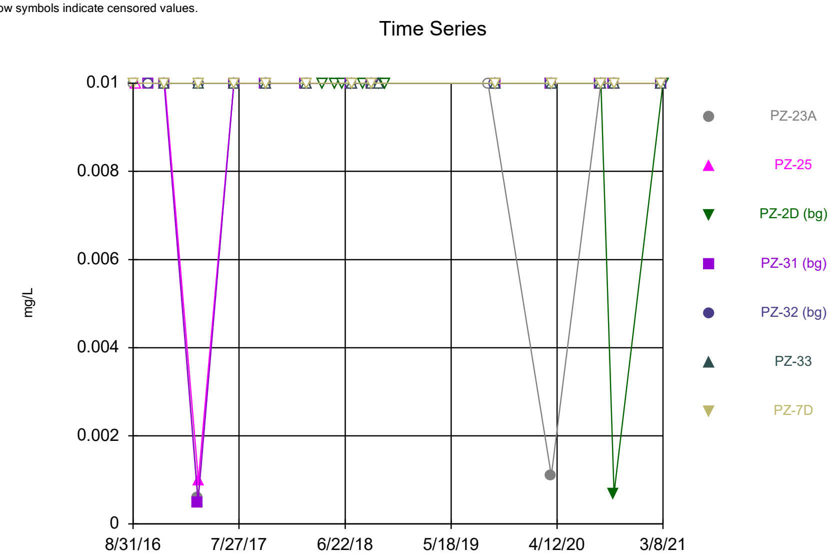
Constituent: Mercury   Analysis Run 4/6/2021 11:35 AM
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



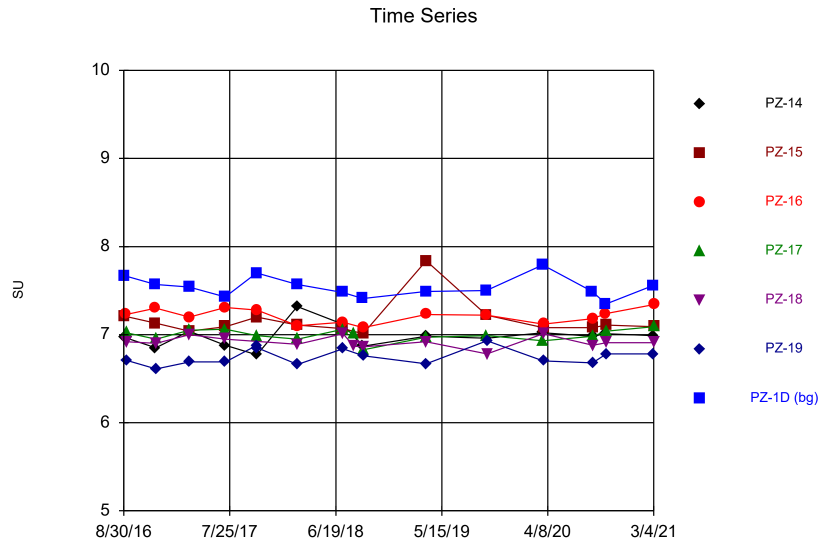
Constituent: Molybdenum   Analysis Run 4/6/2021 11:35 AM
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



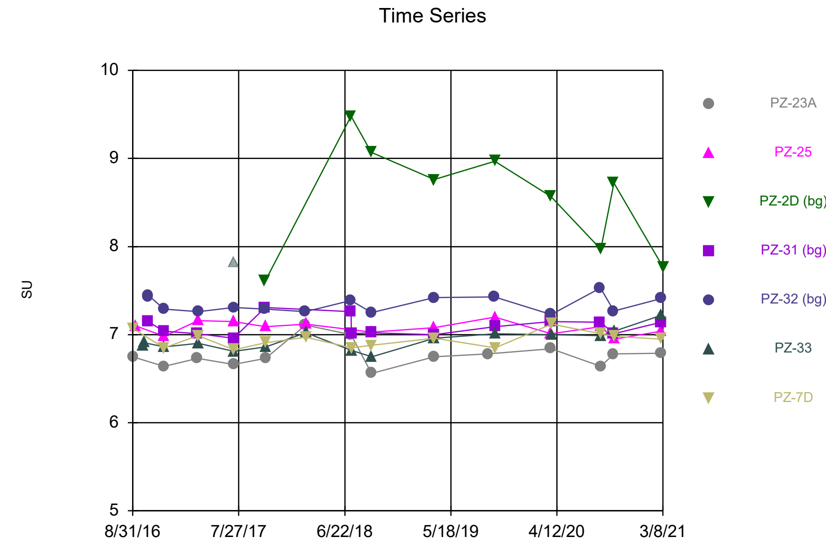
Constituent: Molybdenum   Analysis Run 4/6/2021 11:35 AM
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



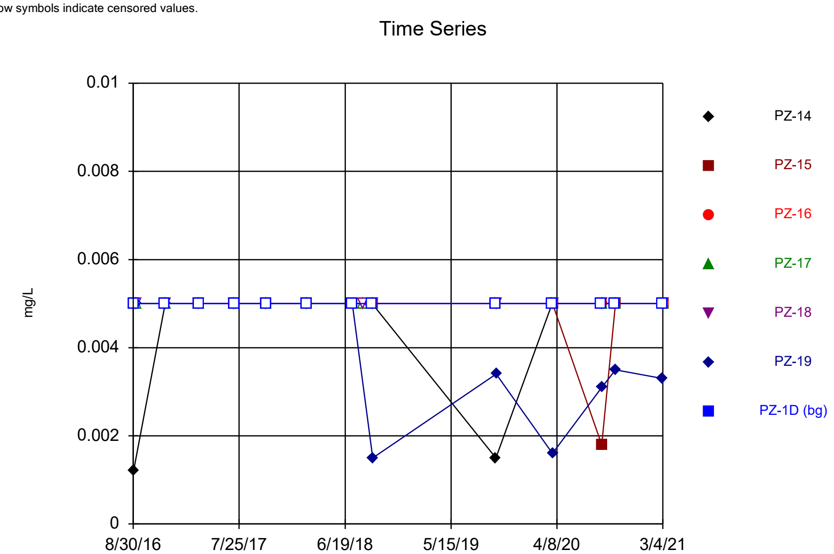
Constituent: pH Analysis Run 4/6/2021 11:35 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



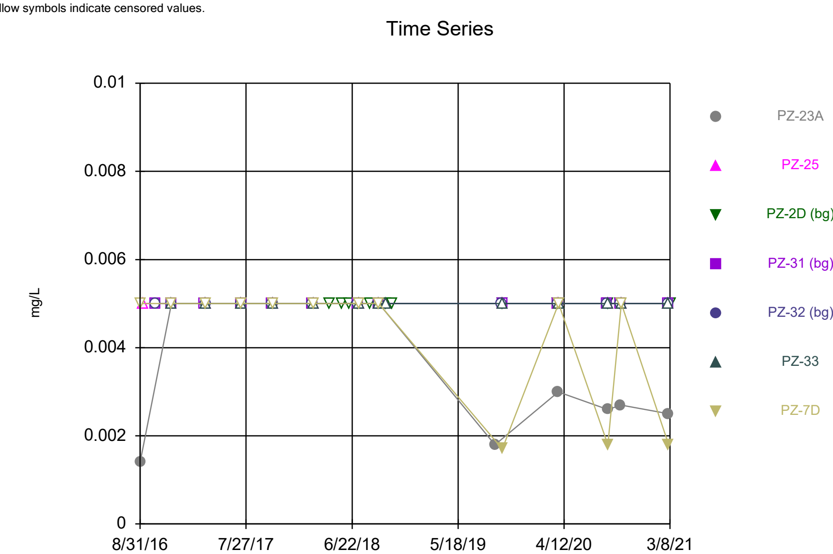
Constituent: pH Analysis Run 4/6/2021 11:35 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



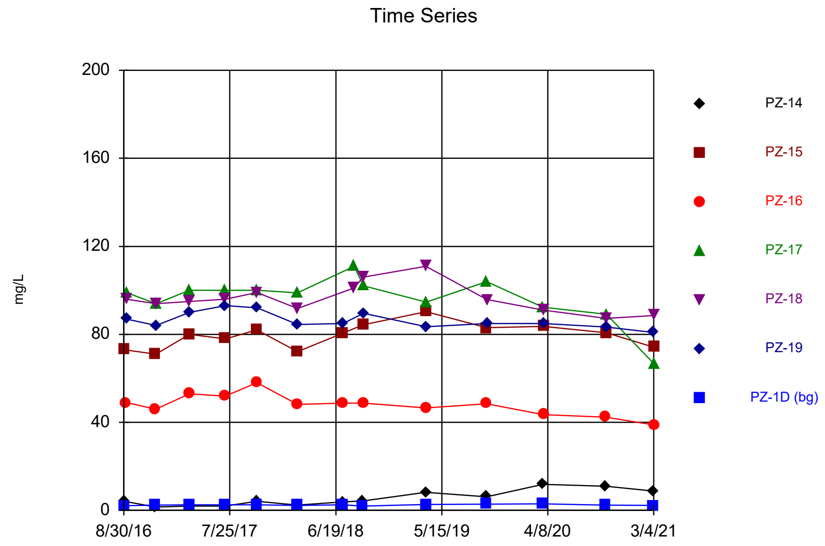
Constituent: Selenium Analysis Run 4/6/2021 11:35 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



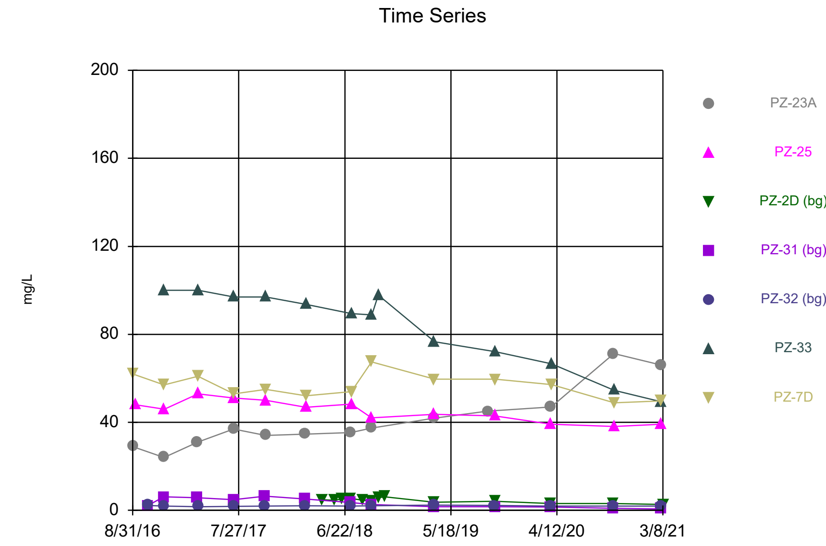
Constituent: Selenium Analysis Run 4/6/2021 11:35 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



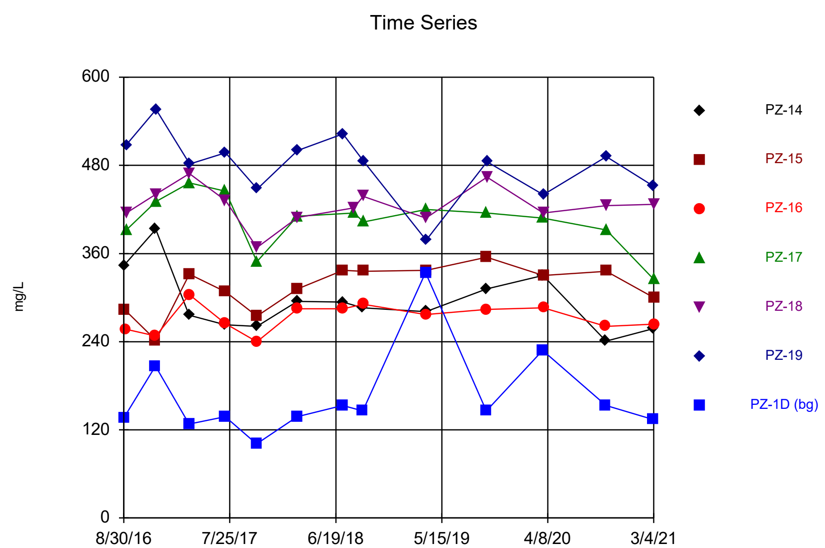
Constituent: Sulfate Analysis Run 4/6/2021 11:35 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



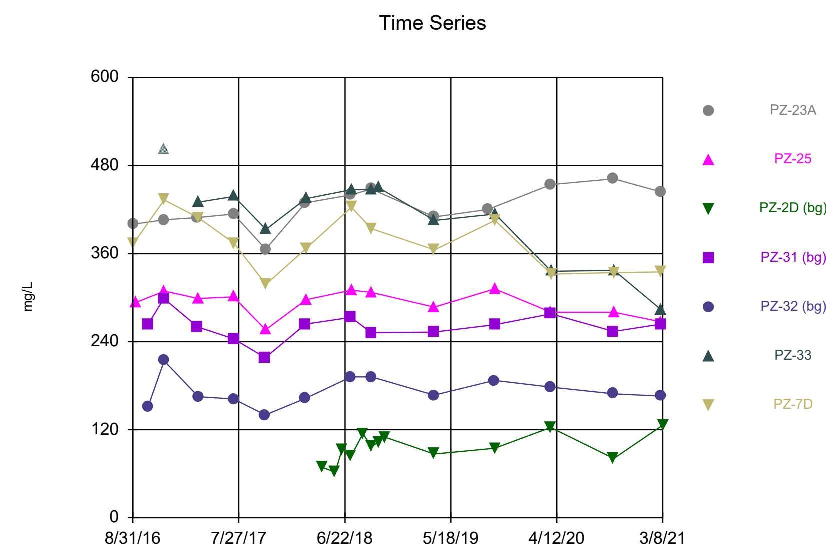
Constituent: Sulfate Analysis Run 4/6/2021 11:35 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

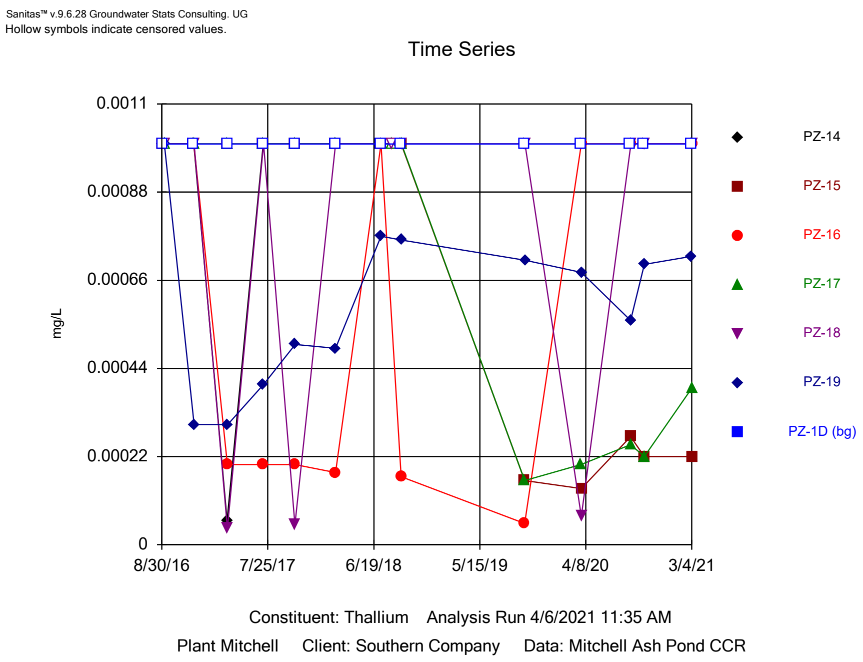


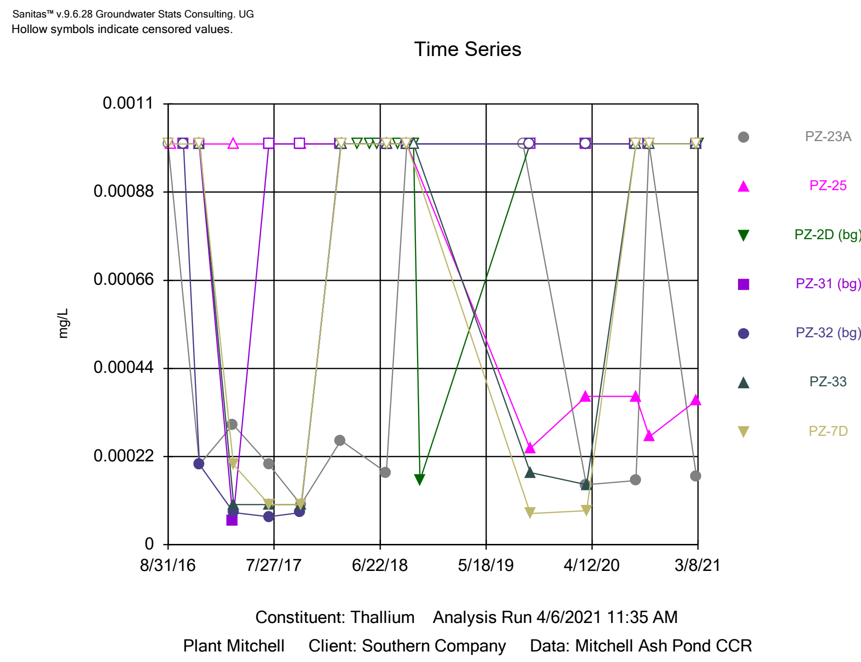
Constituent: TDS Analysis Run 4/6/2021 11:35 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: TDS Analysis Run 4/6/2021 11:35 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Time Series
0.0011
0.00088
0.00066
0.00044
0.00022
0
mg/L
8/30/16
7/25/17
6/19/18
5/15/19
4/8/20
3/4/21
PZ-14
PZ-15
PZ-16
PZ-17
PZ-18
PZ-19
PZ-1D (bg)
Constituent: Thallium Analysis Run 4/6/2021 11:35 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Time Series
0.0011
0.00088
0.00066
0.00044
0.00022
0
mg/L
8/31/16
7/27/17
6/22/18
5/18/19
4/12/20
3/8/21
PZ-23A
PZ-25
PZ-2D (bg)
PZ-31 (bg)
PZ-32 (bg)
PZ-33
PZ-7D
Constituent: Thallium Analysis Run 4/6/2021 11:35 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: Antimony (mg/L)   Analysis Run 4/6/2021 11:35 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)				

Time Series

Constituent: Arsenic (mg/L)   Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: Arsenic (mg/L)   Analysis Run 4/6/2021 11:35 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

Time Series

Constituent: Barium (mg/L) Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: Barium (mg/L)   Analysis Run 4/6/2021 11:35 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				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/6/2021 11:35 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							<0.003
8/31/2016	<0.003						
9/1/2016		<0.003					
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	<0.003						<0.003
3/22/2017		<0.003	<0.003	<0.003	<0.003		
3/23/2017						<0.003	
7/11/2017	<0.003		<0.003				<0.003
7/12/2017		<0.003		<0.003	<0.003	<0.003	
10/17/2017							<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						<0.003
2/21/2018		<0.003	<0.003	<0.003	<0.003	<0.003	
7/11/2018	<0.003						<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						6.1E-05 (J)
9/13/2018		<0.003	<0.003		<0.003		
9/14/2018				<0.003		<0.003	
8/25/2020							<0.003
8/26/2020	<0.003	<0.003	<0.003	<0.003		<0.003	
8/27/2020					<0.003		

Time Series

Constituent: Beryllium (mg/L)   Analysis Run 4/6/2021 11:35 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				<0.003	<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			<0.003				
6/13/2018			<0.003				
7/11/2018	<0.003		<0.003	<0.003	<0.003		
7/12/2018		<0.003				<0.003	<0.003
8/17/2018			<0.003				
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			6E-05 (J)				
8/25/2020				<0.003	<0.003		
8/26/2020	<0.003	<0.003	<0.003			<0.003	<0.003

Time Series

Constituent: Boron (mg/L)   Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: Boron (mg/L)   Analysis Run 4/6/2021 11:35 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)				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/6/2021 11:35 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							<0.0025
8/31/2016	<0.0025						
9/1/2016		<0.0025					
9/6/2016			<0.0025				
9/7/2016				<0.0025	<0.0025	<0.0025	
12/6/2016							<0.0025
12/7/2016	<0.0025	<0.0025	<0.0025				
12/8/2016				<0.0025	<0.0025	<0.0025	
3/21/2017	<0.0025						<0.0025
3/22/2017		<0.0025	<0.0025	<0.0025	<0.0025		
3/23/2017						<0.0025	
7/11/2017	<0.0025		<0.0025				<0.0025
7/12/2017		<0.0025		<0.0025	<0.0025	<0.0025	
10/17/2017							<0.0025
10/18/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
10/19/2017						<0.0025	
2/20/2018	<0.0025						<0.0025
2/21/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
7/11/2018	<0.0025						<0.0025
7/12/2018		<0.0025	<0.0025			<0.0025	
8/15/2018					<0.0025		
8/16/2018				<0.0025			
9/12/2018	<0.0025						<0.0025
9/13/2018		<0.0025	<0.0025		<0.0025		
9/14/2018				<0.0025		<0.0025	
8/25/2020							<0.0025
8/26/2020	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	
8/27/2020					<0.0025		

Time Series

Constituent: Cadmium (mg/L)   Analysis Run 4/6/2021 11:35 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							<0.0025
9/8/2016		<0.0025					
10/18/2016				<0.0025	<0.0025		
12/6/2016				<0.0025			
12/7/2016	0.0002 (J)				<0.0025		<0.0025
12/8/2016		<0.0025				<0.0025	
3/21/2017	<0.0025			<0.0025			
3/22/2017		<0.0025					<0.0025
3/23/2017					<0.0025	0.0001 (J)	
7/11/2017	<0.0025	<0.0025		<0.0025	<0.0025		
7/12/2017						<0.0025	<0.0025
10/17/2017				<0.0025	<0.0025		
10/18/2017	<0.0025	<0.0025					
10/19/2017						<0.0025	<0.0025
2/20/2018	<0.0025			<0.0025	<0.0025		
2/21/2018		<0.0025				<0.0025	<0.0025
4/12/2018			<0.0025				
5/23/2018			<0.0025				
6/13/2018			<0.0025				
7/11/2018	<0.0025		<0.0025	<0.0025	<0.0025		
7/12/2018		<0.0025				<0.0025	<0.0025
8/17/2018			<0.0025				
9/12/2018			<0.0025	<0.0025			
9/13/2018	<0.0025	<0.0025			<0.0025		<0.0025
9/14/2018						<0.0025	
10/4/2018			<0.0025			<0.0025	
10/24/2018			<0.0025				
8/25/2020				<0.0025	<0.0025		
8/26/2020	<0.0025	<0.0025	<0.0025			<0.0025	<0.0025

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/6/2021 11:35 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				

Time Series

Constituent: Chloride (mg/L)   Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/6/2021 11:35 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				

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: Chromium (mg/L)   Analysis Run 4/6/2021 11:35 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)				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: Cobalt (mg/L)   Analysis Run 4/6/2021 11:35 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				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L)   Analysis Run 4/6/2021 11:35 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)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L)   Analysis Run 4/6/2021 11:35 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)				

Time Series

Constituent: Fluoride (mg/L)   Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: Fluoride (mg/L)   Analysis Run 4/6/2021 11:35 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				

Time Series

Constituent: Lead (mg/L) Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: Lead (mg/L) Analysis Run 4/6/2021 11:35 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)				

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/6/2021 11:35 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)		

Time Series

Constituent: Lithium (mg/L)   Analysis Run 4/6/2021 11:35 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)				

Time Series

Constituent: Mercury (mg/L)   Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/6/2021 11:35 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				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/6/2021 11:35 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				

Time Series

Constituent: pH (SU)   Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: pH (SU)   Analysis Run 4/6/2021 11:35 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				

Time Series

Constituent: Selenium (mg/L)   Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/6/2021 11:35 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				

Time Series

Constituent: Sulfate (mg/L)   Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/6/2021 11:35 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				

Time Series

Constituent: TDS (mg/L) Analysis Run 4/6/2021 11:35 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		

Time Series

Constituent: TDS (mg/L)   Analysis Run 4/6/2021 11:35 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				

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/6/2021 11:35 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		

Time Series

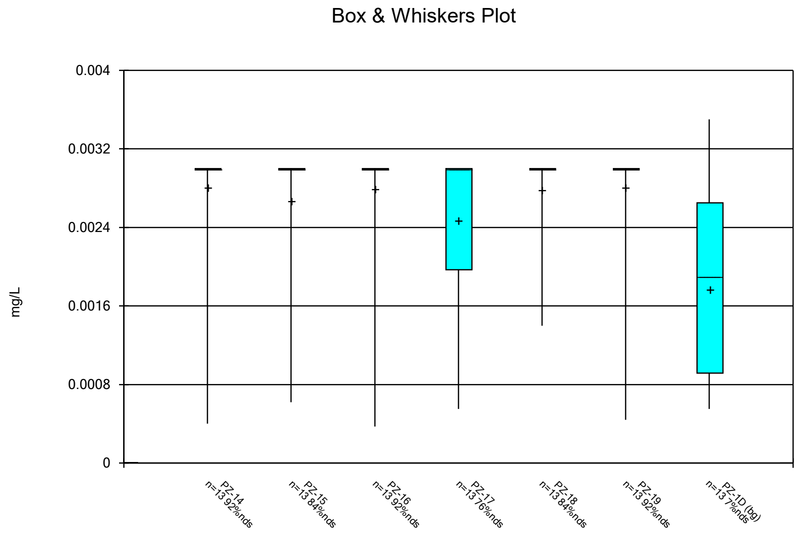
Constituent: Thallium (mg/L)   Analysis Run 4/6/2021 11:35 AM

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				

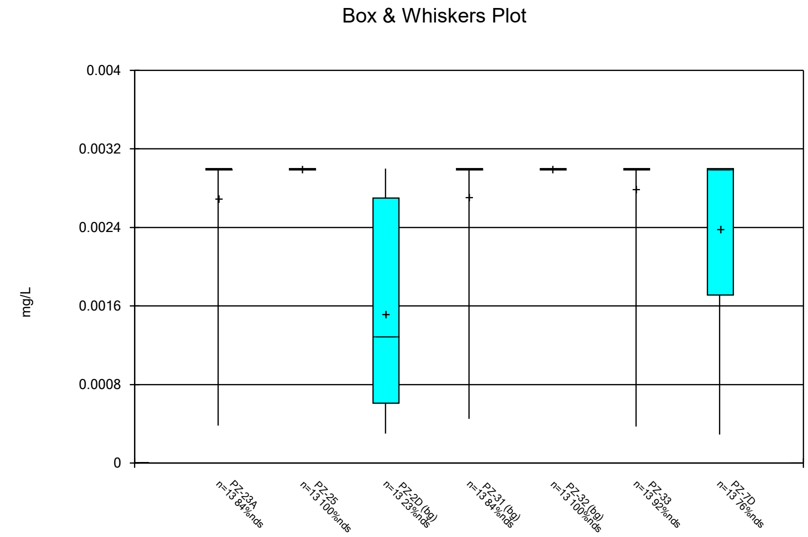
FIGURE B.

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



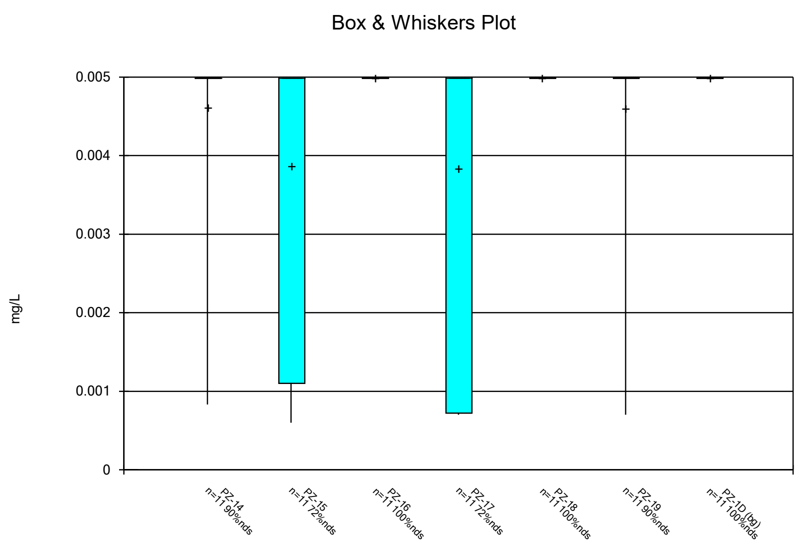
Constituent: Antimony   Analysis Run 4/6/2021 11:36 AM
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



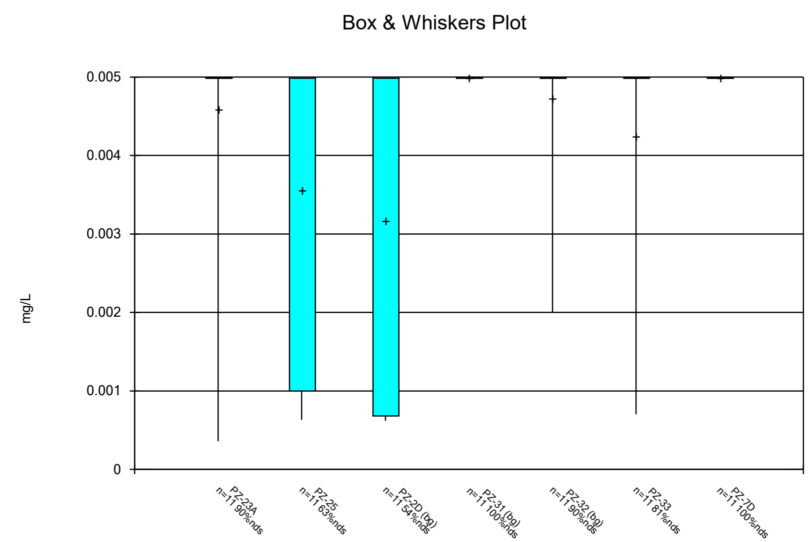
Constituent: Antimony   Analysis Run 4/6/2021 11:36 AM
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



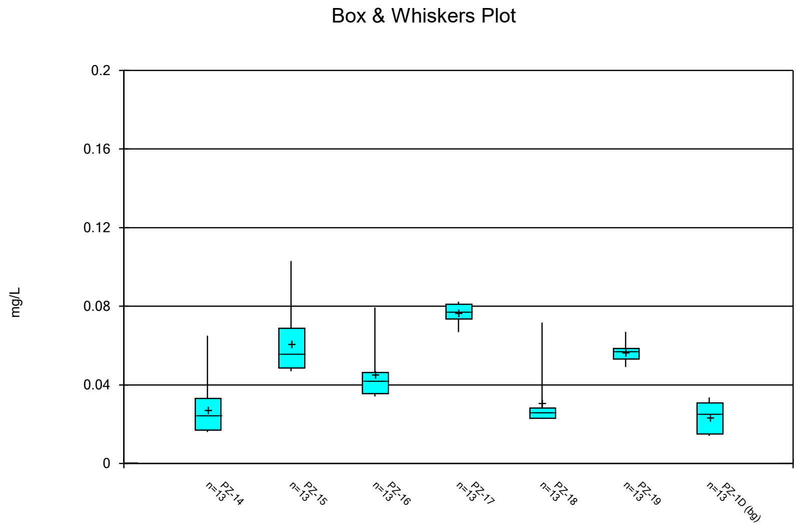
Constituent: Arsenic   Analysis Run 4/6/2021 11:36 AM
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Arsenic   Analysis Run 4/6/2021 11:36 AM
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

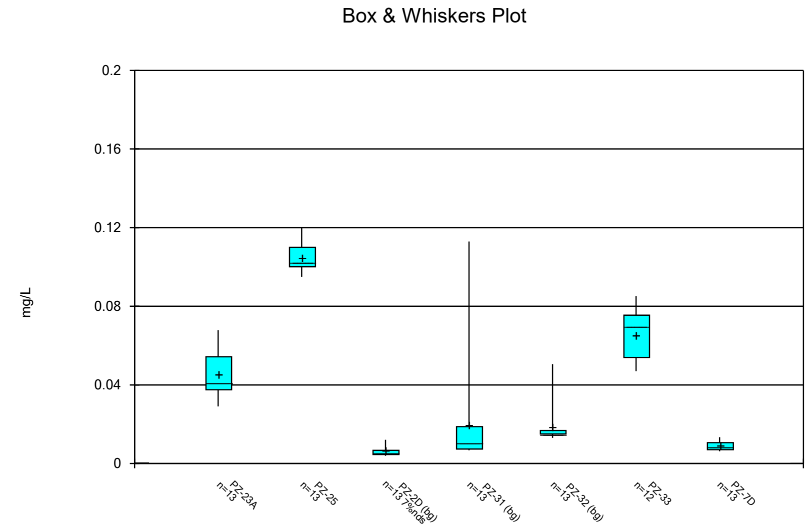
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Barium   Analysis Run 4/6/2021 11:36 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

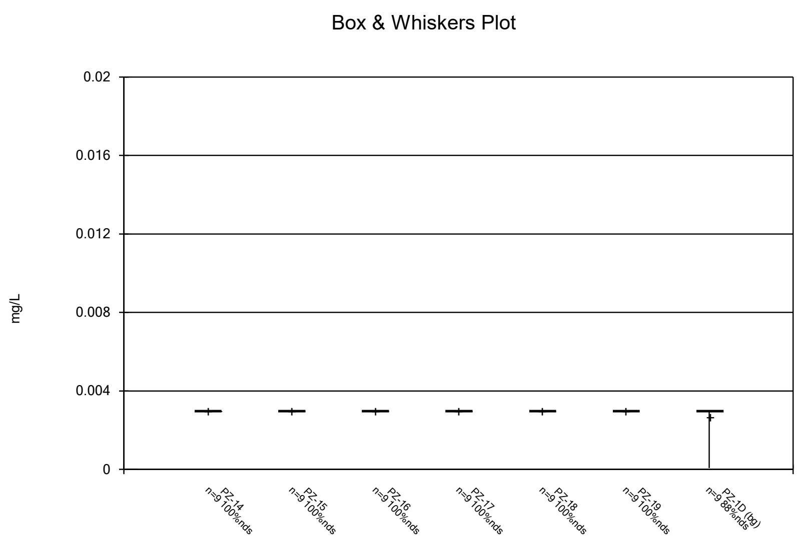
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Barium   Analysis Run 4/6/2021 11:36 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

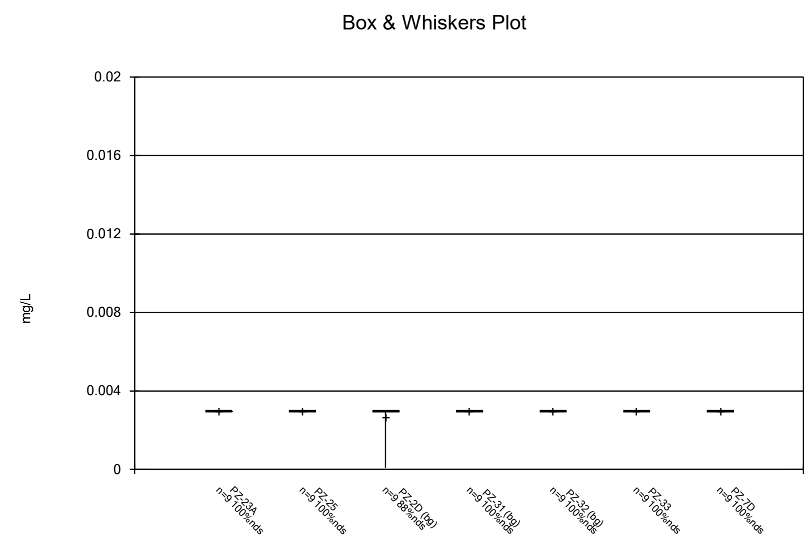
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Beryllium   Analysis Run 4/6/2021 11:36 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

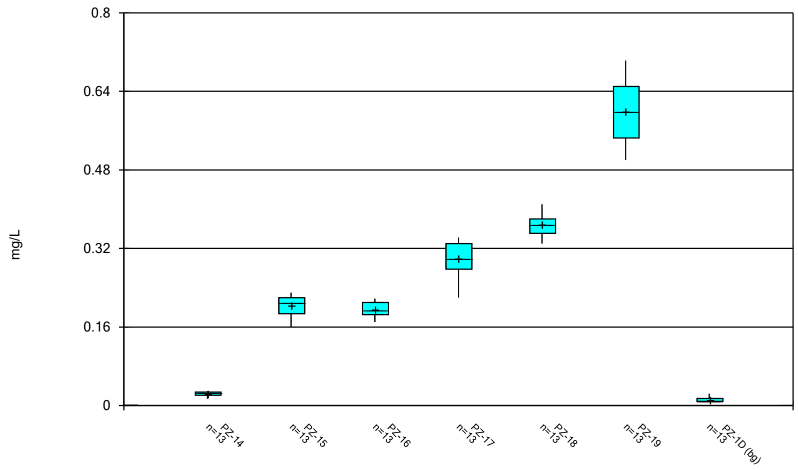


Constituent: Beryllium   Analysis Run 4/6/2021 11:36 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

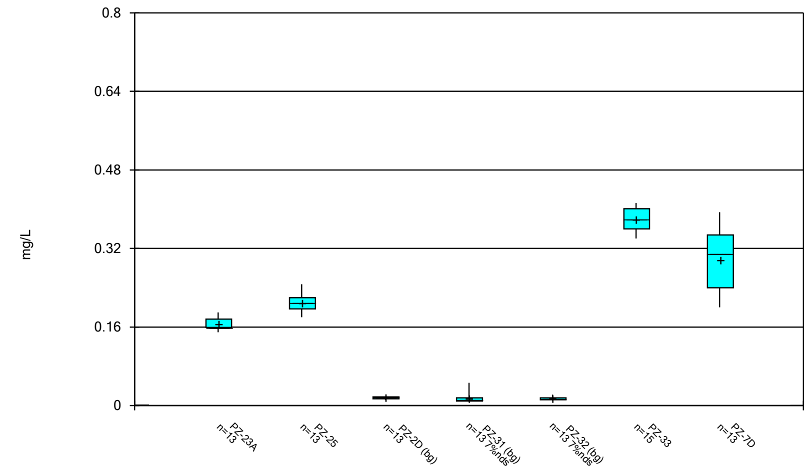


Constituent: Boron Analysis Run 4/6/2021 11:36 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

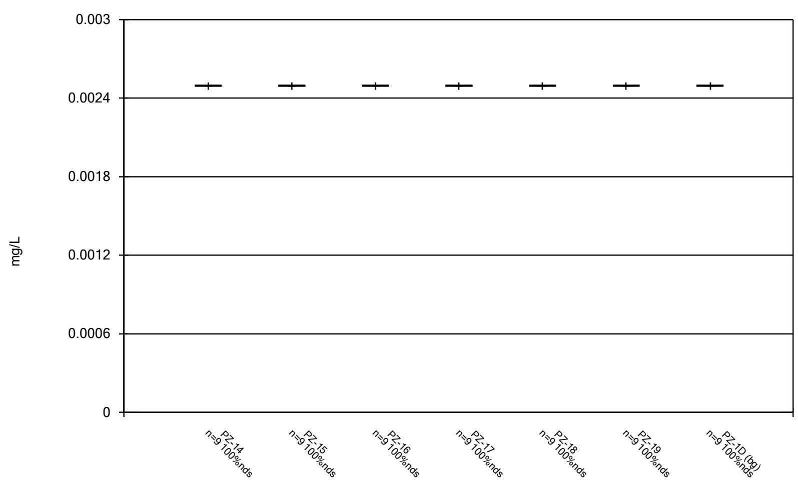


Constituent: Boron Analysis Run 4/6/2021 11:36 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

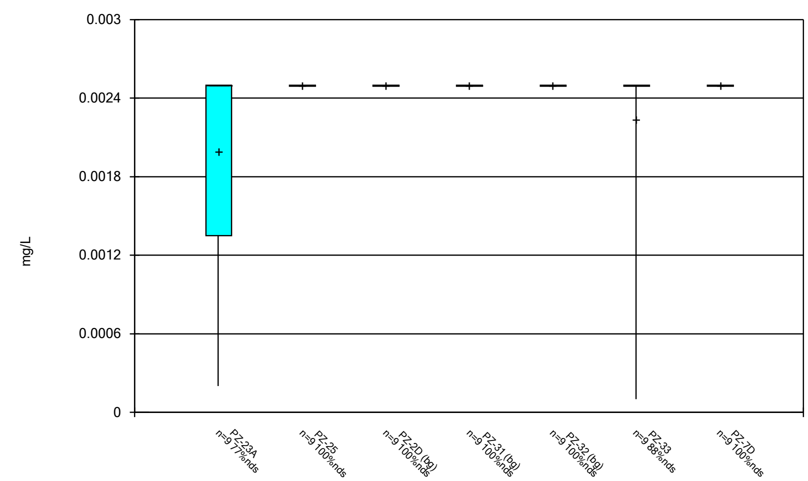


Constituent: Cadmium Analysis Run 4/6/2021 11:36 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

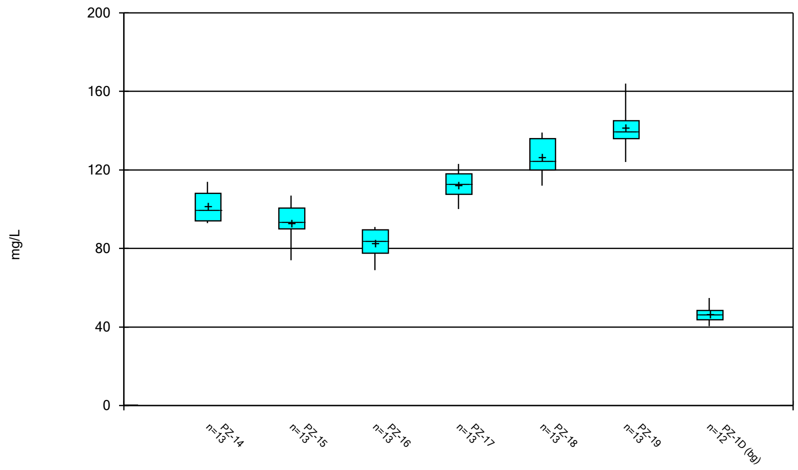


Constituent: Cadmium Analysis Run 4/6/2021 11:36 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

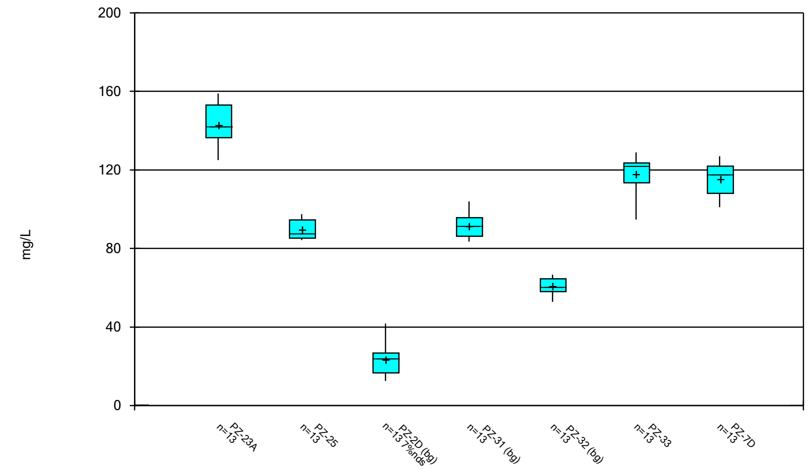
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/6/2021 11:36 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

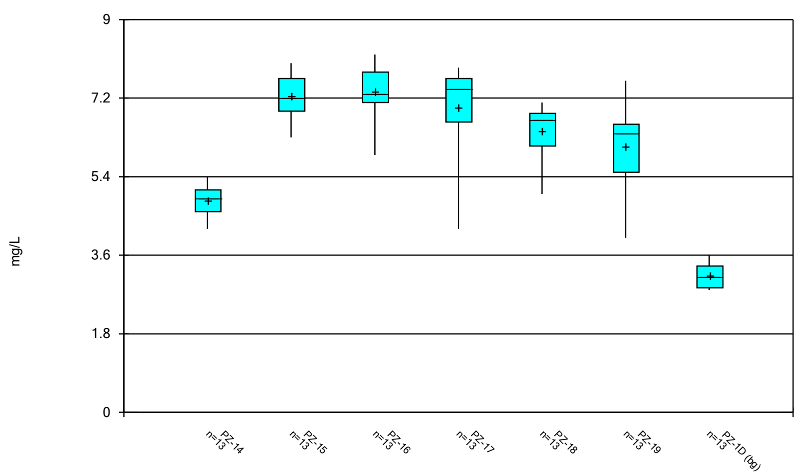
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/6/2021 11:36 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

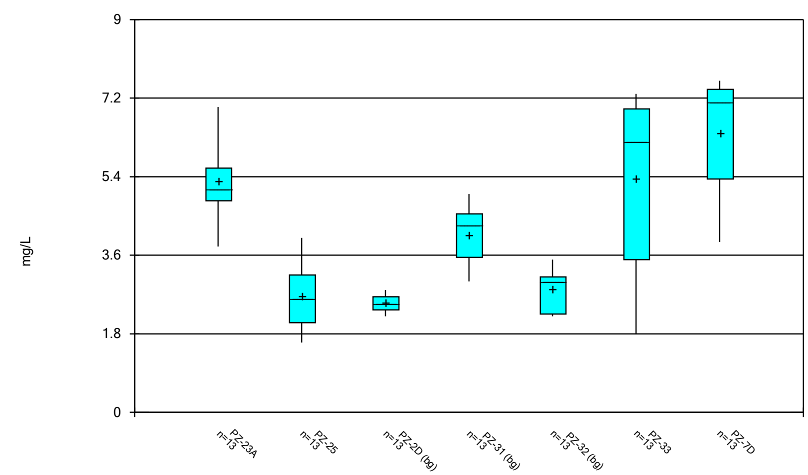
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/6/2021 11:36 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

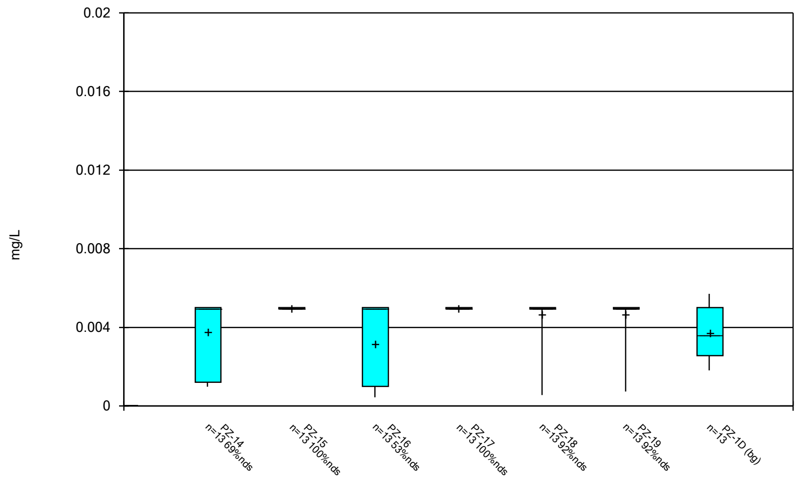
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/6/2021 11:36 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

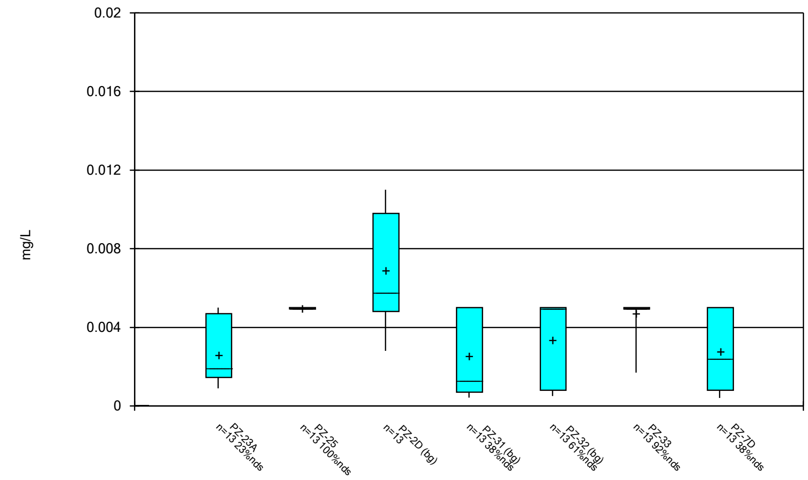


Constituent: Chromium   Analysis Run 4/6/2021 11:36 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

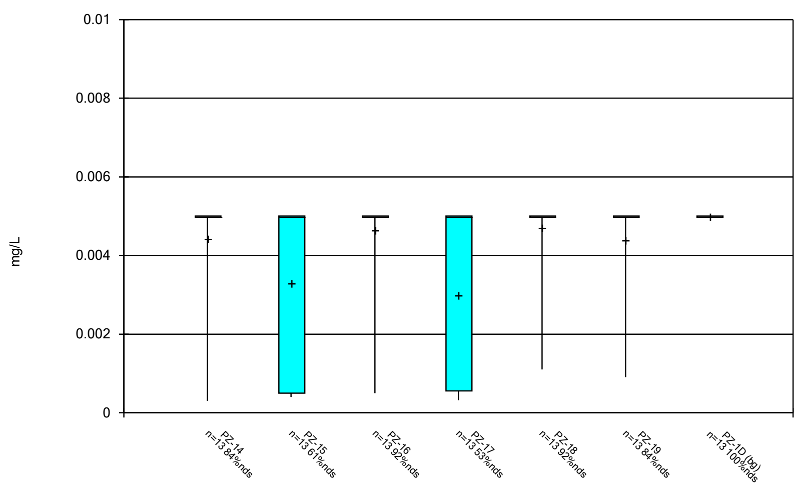


Constituent: Chromium   Analysis Run 4/6/2021 11:36 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

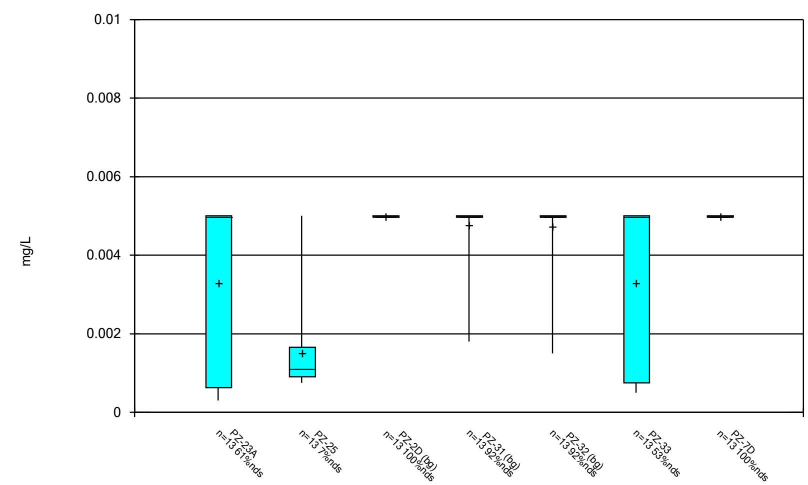


Constituent: Cobalt   Analysis Run 4/6/2021 11:36 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

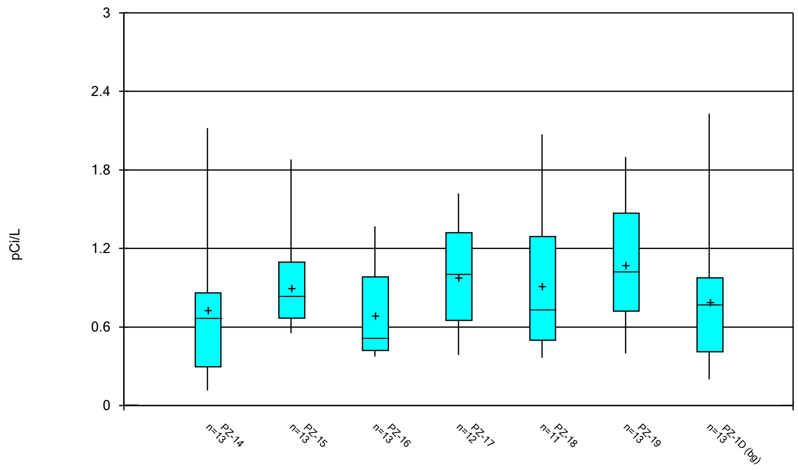


Constituent: Cobalt   Analysis Run 4/6/2021 11:36 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

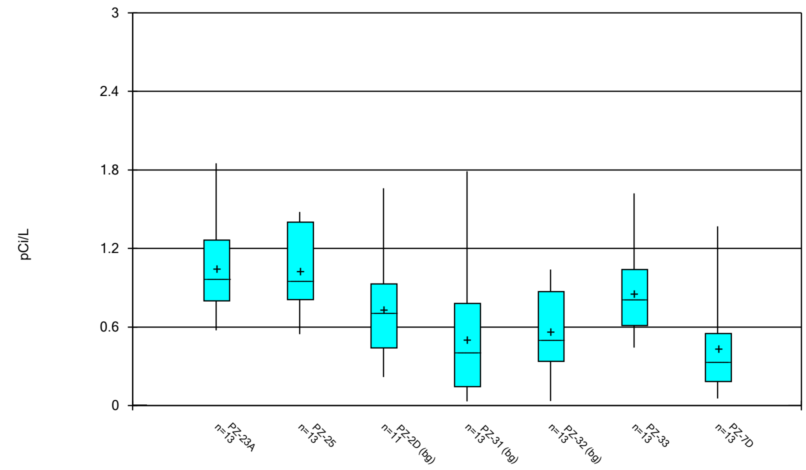


Constituent: Combined Radium 226 + 228 Analysis Run 4/6/2021 11:36 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

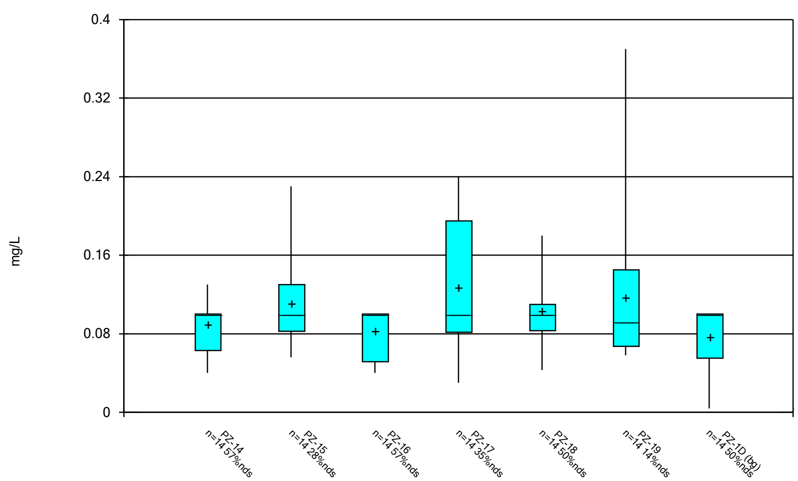


Constituent: Combined Radium 226 + 228 Analysis Run 4/6/2021 11:36 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

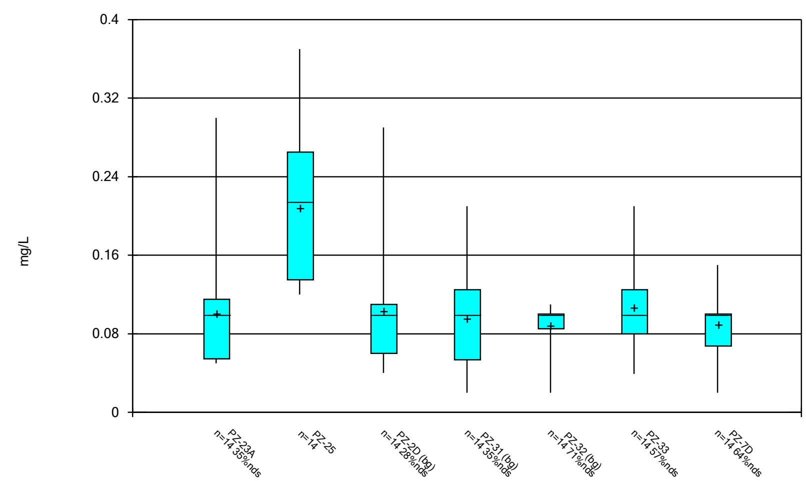


Constituent: Fluoride Analysis Run 4/6/2021 11:36 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

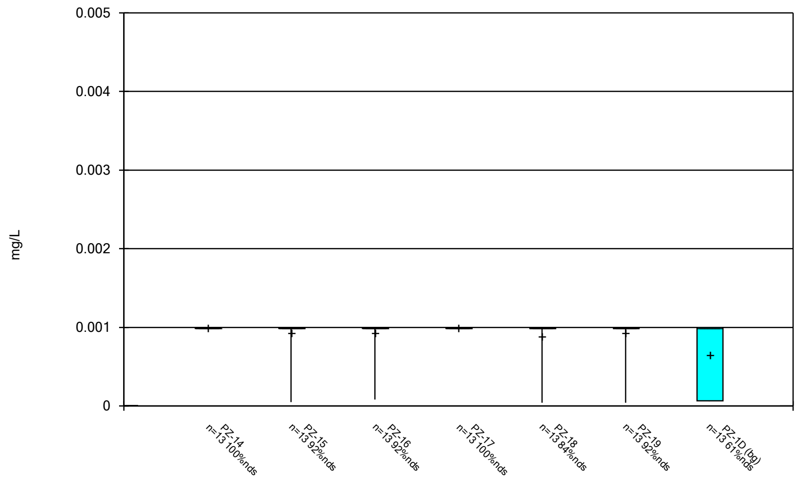


Constituent: Fluoride Analysis Run 4/6/2021 11:36 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

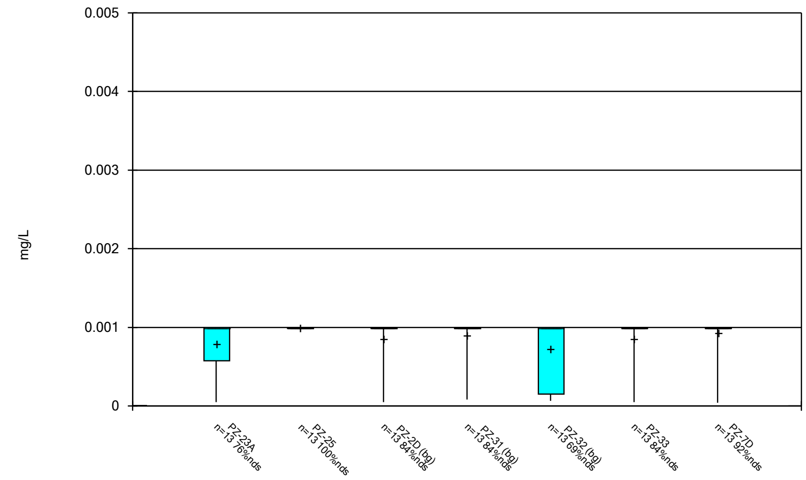


Constituent: Lead Analysis Run 4/6/2021 11:36 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

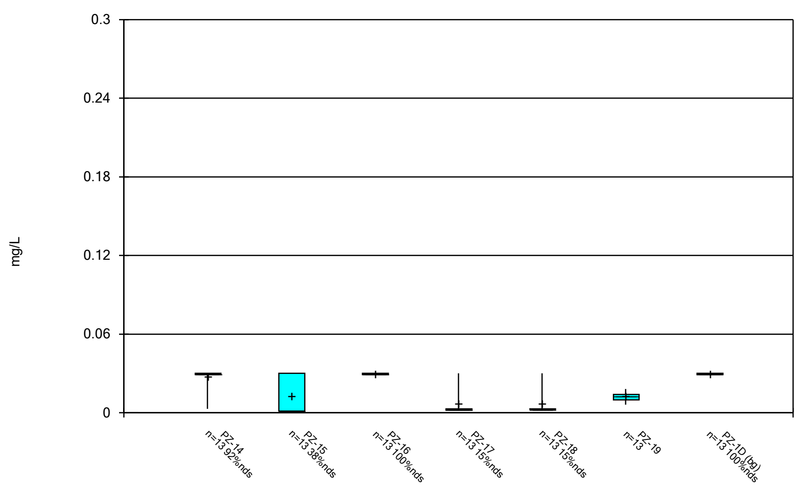


Constituent: Lead Analysis Run 4/6/2021 11:36 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

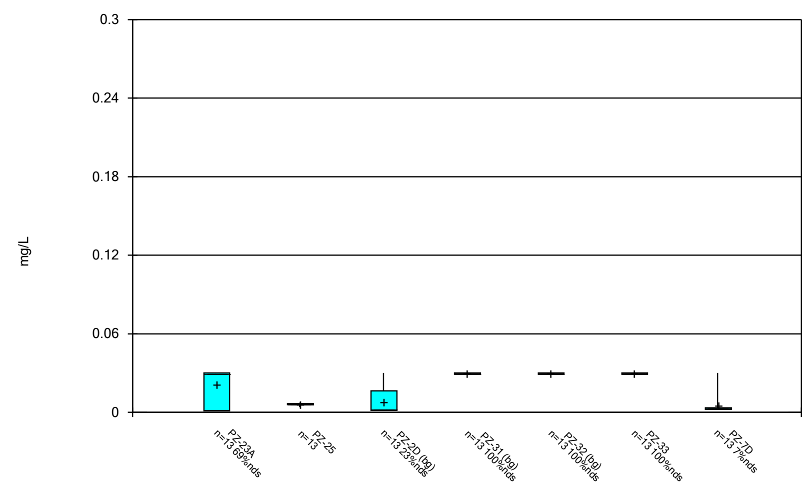


Constituent: Lithium Analysis Run 4/6/2021 11:36 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

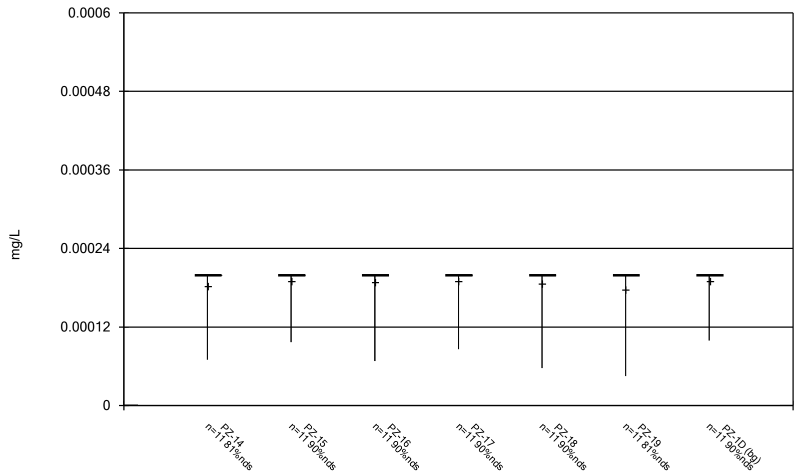


Constituent: Lithium Analysis Run 4/6/2021 11:36 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

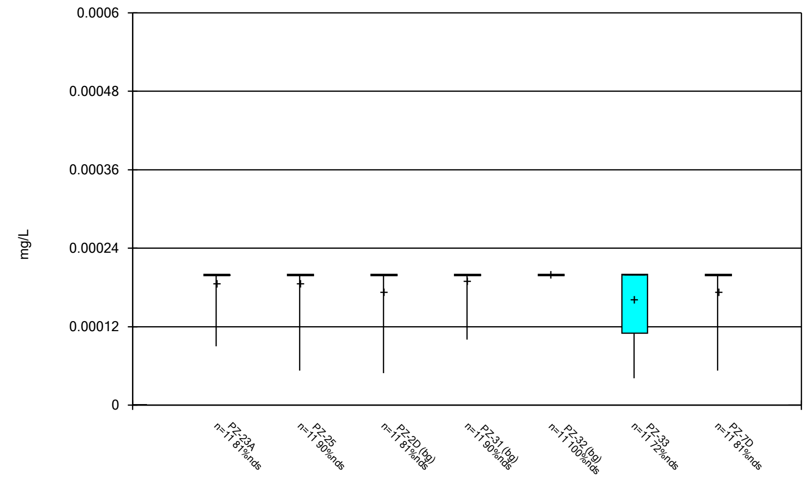


Constituent: Mercury   Analysis Run 4/6/2021 11:36 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

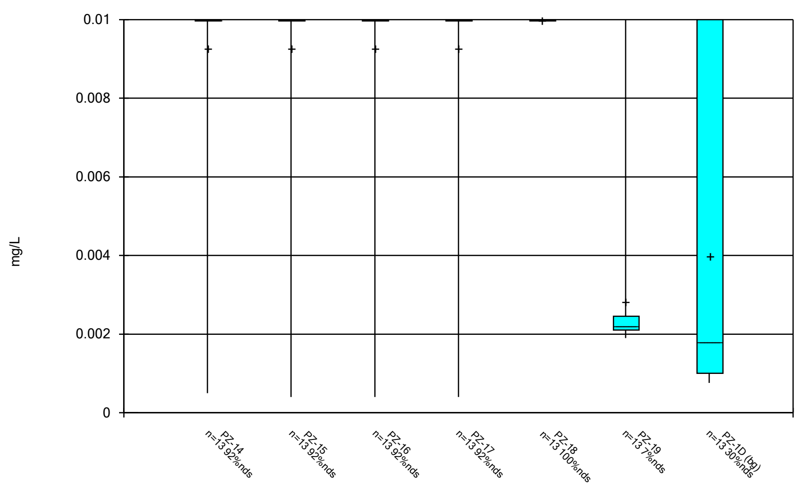


Constituent: Mercury   Analysis Run 4/6/2021 11:36 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

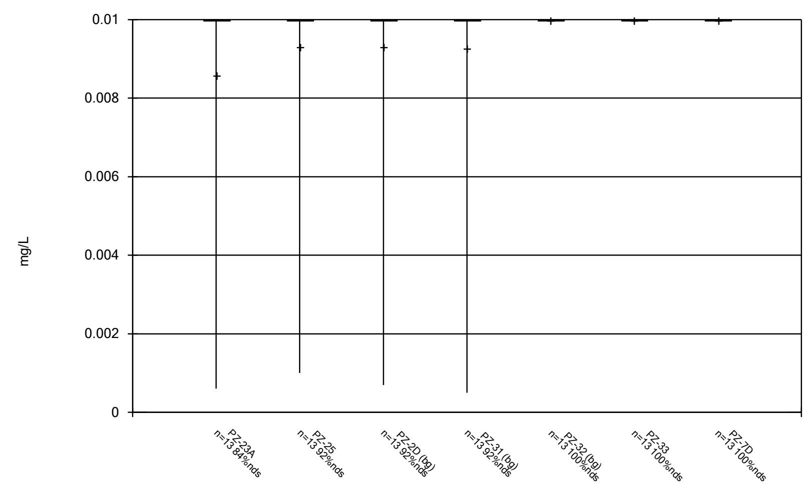


Constituent: Molybdenum   Analysis Run 4/6/2021 11:36 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

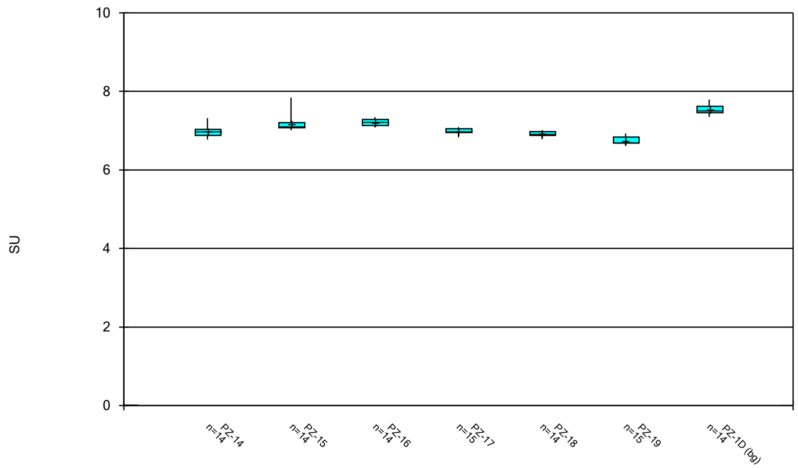


Constituent: Molybdenum   Analysis Run 4/6/2021 11:37 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

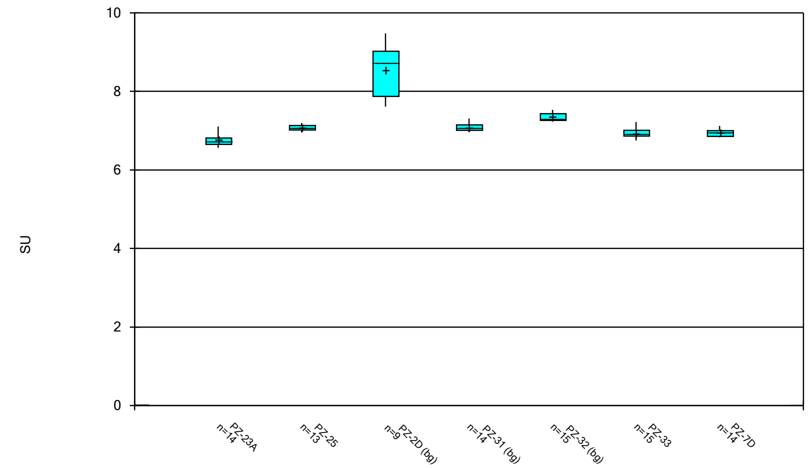


Constituent: pH   Analysis Run 4/6/2021 11:37 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

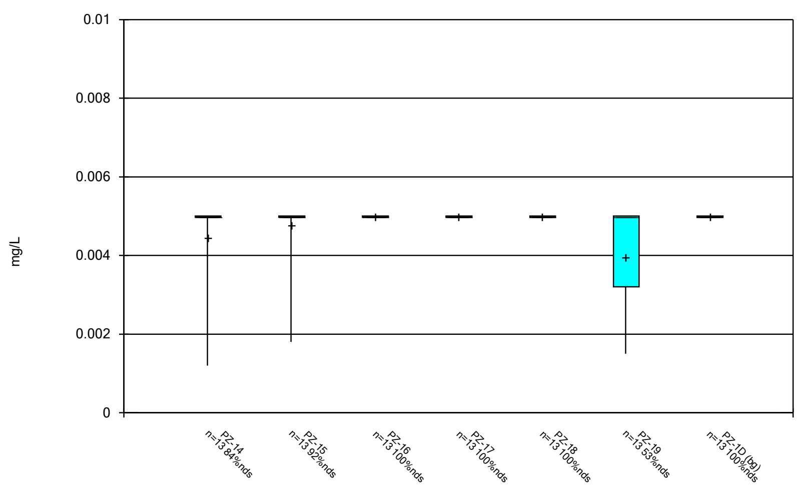


Constituent: pH   Analysis Run 4/6/2021 11:37 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

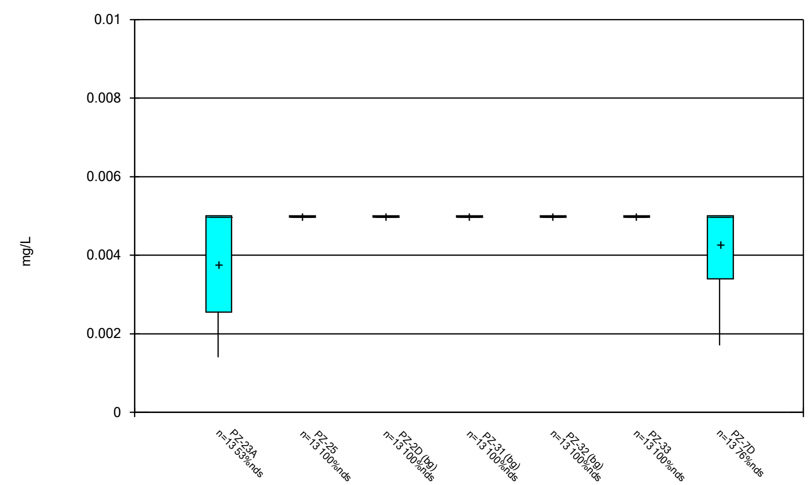


Constituent: Selenium   Analysis Run 4/6/2021 11:37 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

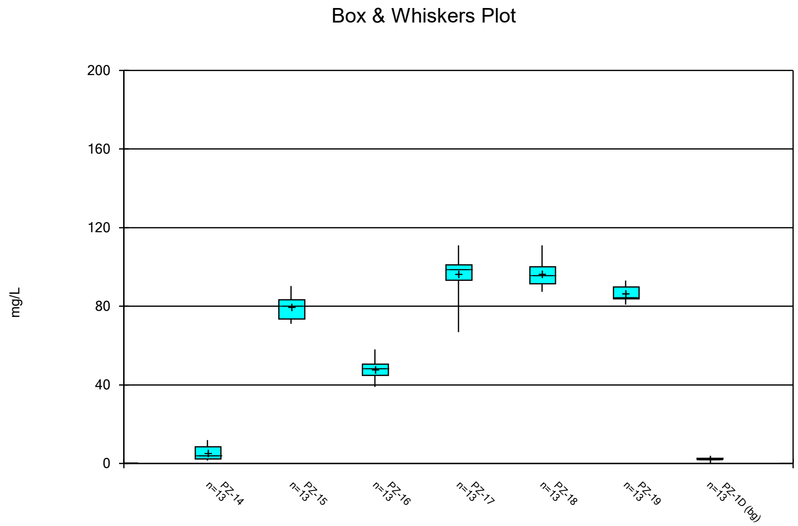
Box & Whiskers Plot



Constituent: Selenium   Analysis Run 4/6/2021 11:37 AM

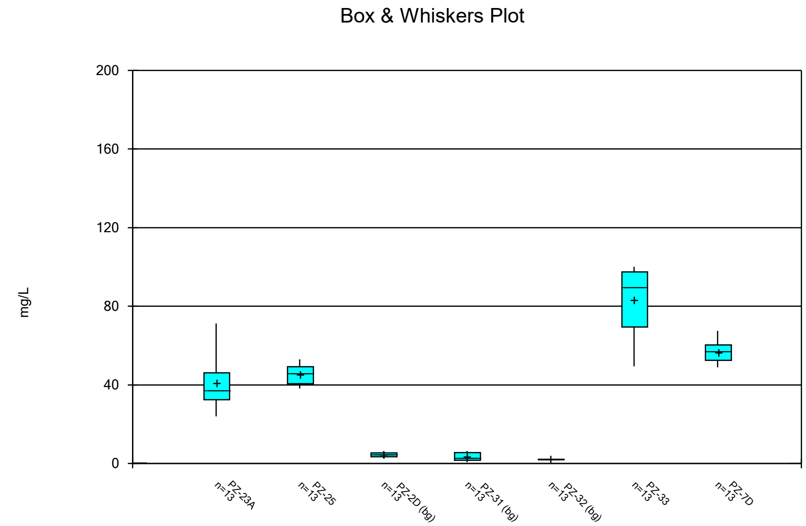
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



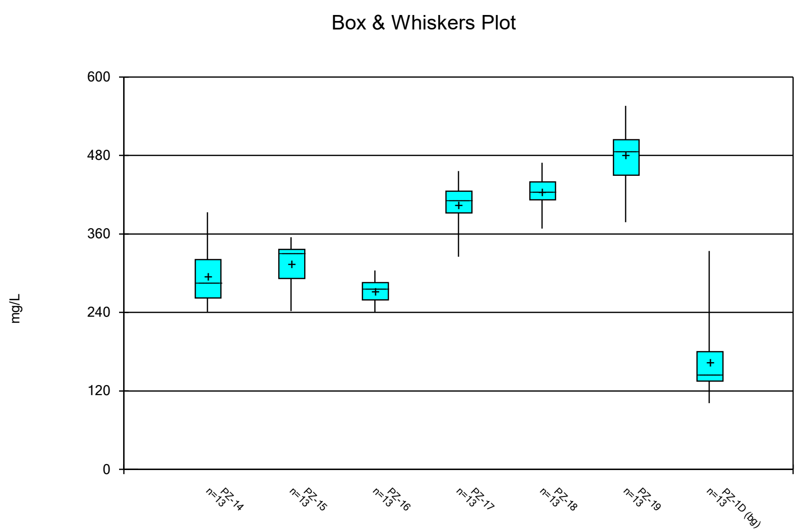
Constituent: Sulfate Analysis Run 4/6/2021 11:37 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



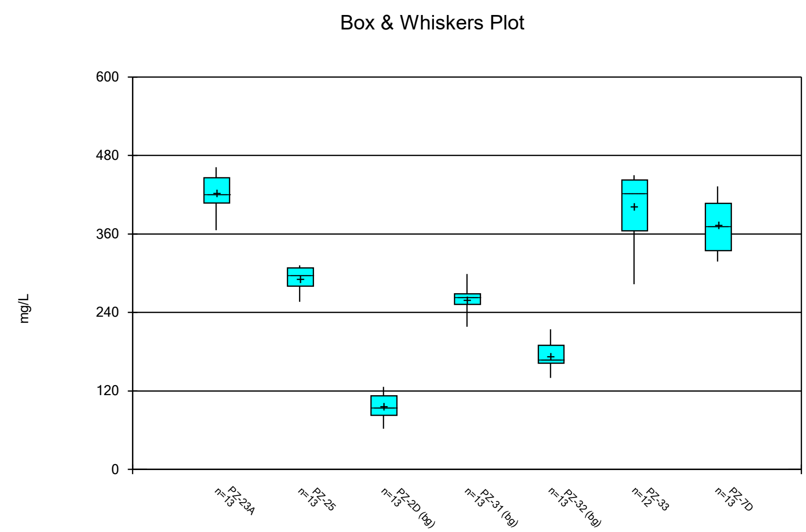
Constituent: Sulfate Analysis Run 4/6/2021 11:37 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: TDS Analysis Run 4/6/2021 11:37 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

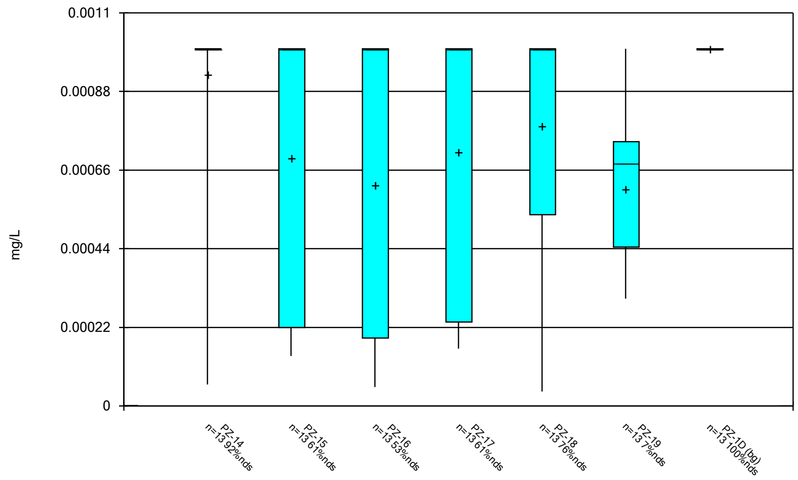
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: TDS Analysis Run 4/6/2021 11:37 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

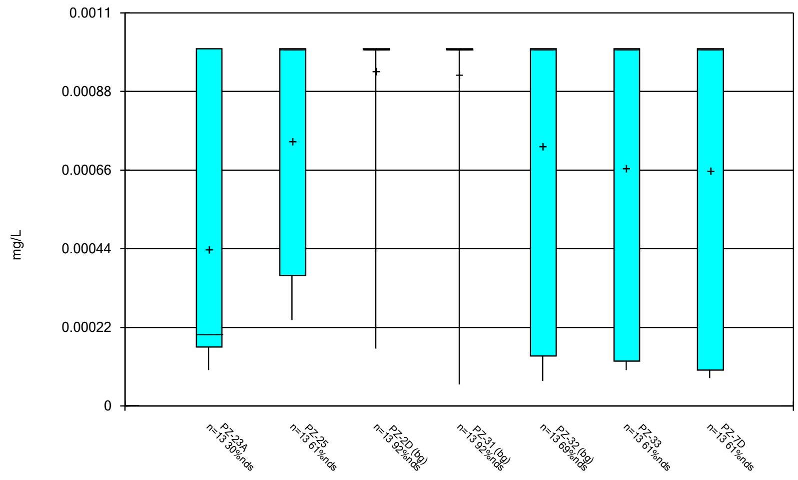


Constituent: Thallium   Analysis Run 4/6/2021 11:37 AM

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium   Analysis Run 4/6/2021 11:37 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 4/6/2021, 11:40 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.

Interwell Prediction Limits - Significant Results

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 3/29/2021, 1:59 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	0.02674	n/a	3/4/2021	0.16	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02674	n/a	3/4/2021	0.2	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02674	n/a	3/4/2021	0.22	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02674	n/a	3/4/2021	0.37	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02674	n/a	3/3/2021	0.5	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02674	n/a	3/3/2021	0.16	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02674	n/a	3/3/2021	0.2	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02674	n/a	3/4/2021	0.34	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02674	n/a	3/4/2021	0.2	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-14	108.3	n/a	3/3/2021	114	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-17	108.3	n/a	3/4/2021	113	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	108.3	n/a	3/4/2021	138	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	108.3	n/a	3/3/2021	142	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	108.3	n/a	3/3/2021	154	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-7D	108.3	n/a	3/4/2021	122	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	4.635	n/a	3/4/2021	6.3	Yes	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-16	4.635	n/a	3/4/2021	5.9	Yes	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.635	n/a	3/4/2021	5.1	Yes	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-23A	4.635	n/a	3/3/2021	4.7	Yes	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
pH (SU)	PZ-18	9.48	6.96	3/4/2021	6.91	Yes	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	3/3/2021	6.78	Yes	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	3/3/2021	6.79	Yes	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	3/4/2021	6.95	Yes	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	6.62	n/a	3/3/2021	8.8	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	6.62	n/a	3/4/2021	74.1	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	6.62	n/a	3/4/2021	38.9	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	6.62	n/a	3/4/2021	66.8	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	6.62	n/a	3/4/2021	88.6	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	6.62	n/a	3/3/2021	80.8	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	6.62	n/a	3/3/2021	66	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	6.62	n/a	3/3/2021	39.2	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	6.62	n/a	3/4/2021	49.3	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	6.62	n/a	3/4/2021	49.7	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	311.1	n/a	3/4/2021	325	Yes	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	311.1	n/a	3/4/2021	427	Yes	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	311.1	n/a	3/3/2021	452	Yes	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	311.1	n/a	3/3/2021	444	Yes	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-7D	311.1	n/a	3/4/2021	335	Yes	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 3/29/2021, 1:59 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	0.02674	n/a	3/3/2021	0.028J	No	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-15	0.02674	n/a	3/4/2021	0.16	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02674	n/a	3/4/2021	0.2	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02674	n/a	3/4/2021	0.22	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02674	n/a	3/4/2021	0.37	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02674	n/a	3/3/2021	0.5	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02674	n/a	3/3/2021	0.16	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02674	n/a	3/3/2021	0.2	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02674	n/a	3/4/2021	0.34	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02674	n/a	3/4/2021	0.2	Yes	52	-4.33	0.3495	3.846	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-14	108.3	n/a	3/3/2021	114	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-15	108.3	n/a	3/4/2021	107	No	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-16	108.3	n/a	3/4/2021	90.9	No	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-17	108.3	n/a	3/4/2021	113	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	108.3	n/a	3/4/2021	138	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	108.3	n/a	3/3/2021	142	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	108.3	n/a	3/3/2021	154	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-25	108.3	n/a	3/3/2021	96.8	No	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-33	108.3	n/a	3/4/2021	106	No	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-7D	108.3	n/a	3/4/2021	122	Yes	51	55.76	25.87	1.961	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-14	4.635	n/a	3/3/2021	4.2	No	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	4.635	n/a	3/4/2021	6.3	Yes	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-16	4.635	n/a	3/4/2021	5.9	Yes	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-17	4.635	n/a	3/4/2021	4.2	No	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.635	n/a	3/4/2021	5.1	Yes	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-19	4.635	n/a	3/3/2021	4	No	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-23A	4.635	n/a	3/3/2021	4.7	Yes	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-25	4.635	n/a	3/3/2021	1.6	No	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-33	4.635	n/a	3/4/2021	1.8	No	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-7D	4.635	n/a	3/4/2021	4	No	52	1.758	0.1947	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	3/3/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	3/4/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	3/4/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	3/4/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	3/4/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	3/3/2021	0.058J	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	3/3/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	3/3/2021	0.12	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	3/4/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	3/4/2021	0.1ND	No	56	n/a	n/a	46.43	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
pH (SU)	PZ-14	9.48	6.96	3/3/2021	6.99	No	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-15	9.48	6.96	3/4/2021	7.09	No	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-16	9.48	6.96	3/4/2021	7.34	No	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	3/4/2021	7.09	No	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	3/4/2021	6.91	Yes	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	3/3/2021	6.78	Yes	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	3/3/2021	6.79	Yes	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-25	9.48	6.96	3/3/2021	7.04	No	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	3/4/2021	7.22	No	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	3/4/2021	6.95	Yes	52	n/a	n/a	0	n/a	n/a	0.001376	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	6.62	n/a	3/3/2021	8.8	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	6.62	n/a	3/4/2021	74.1	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	6.62	n/a	3/4/2021	38.9	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	6.62	n/a	3/4/2021	66.8	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	6.62	n/a	3/4/2021	88.6	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	6.62	n/a	3/3/2021	80.8	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	6.62	n/a	3/3/2021	66	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	6.62	n/a	3/3/2021	39.2	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	6.62	n/a	3/4/2021	49.3	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	6.62	n/a	3/4/2021	49.7	Yes	52	1.415	0.2282	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-14	311.1	n/a	3/3/2021	258	No	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-15	311.1	n/a	3/4/2021	300	No	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-16	311.1	n/a	3/4/2021	264	No	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	311.1	n/a	3/4/2021	325	Yes	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	311.1	n/a	3/4/2021	427	Yes	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	311.1	n/a	3/3/2021	452	Yes	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	311.1	n/a	3/3/2021	444	Yes	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-25	311.1	n/a	3/3/2021	267	No	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-33	311.1	n/a	3/4/2021	283	No	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-7D	311.1	n/a	3/4/2021	335	Yes	52	173.5	67.92	0	None	No	0.0007523	Param Inter 1 of 2

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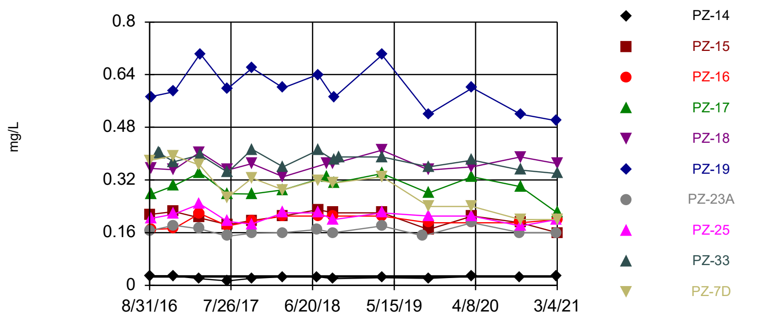
Exceeds Limit: PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-7D

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-4.33, Std. Dev.=0.3495, n=52, 3.846% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9452, critical = 0.937. Kappa = 2.027 (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 3/29/2021 1:55 PM View: Appendix III

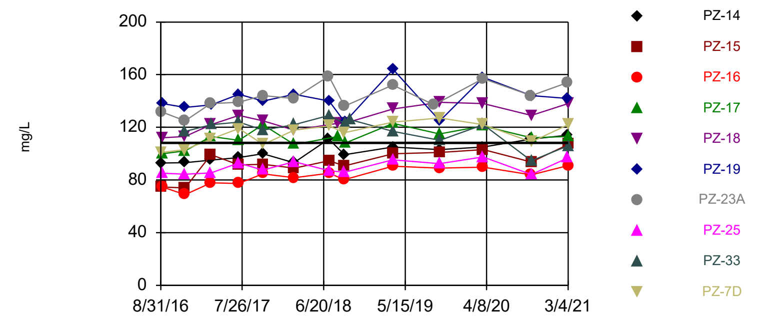
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Exceeds Limit: PZ-14, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-7D

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=55.76, Std. Dev.=25.87, n=51, 1.961% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.965, critical = 0.935. Kappa = 2.03 (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 3/29/2021 1:55 PM View: Appendix III

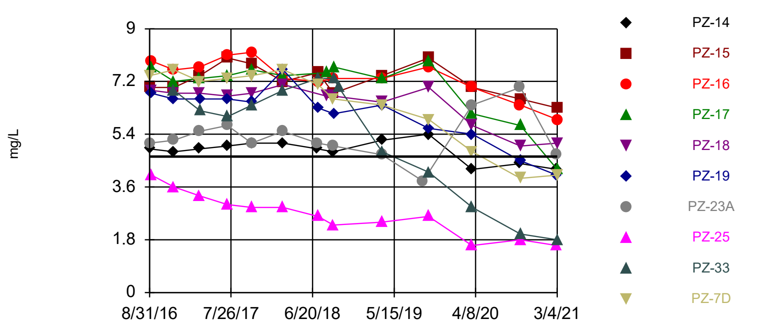
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Exceeds Limit: PZ-15, PZ-16, PZ-18, PZ-23A

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=1.758, Std. Dev.=0.1947, n=52. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9497, critical = 0.937. Kappa = 2.027 (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 3/29/2021 1:55 PM View: Appendix III

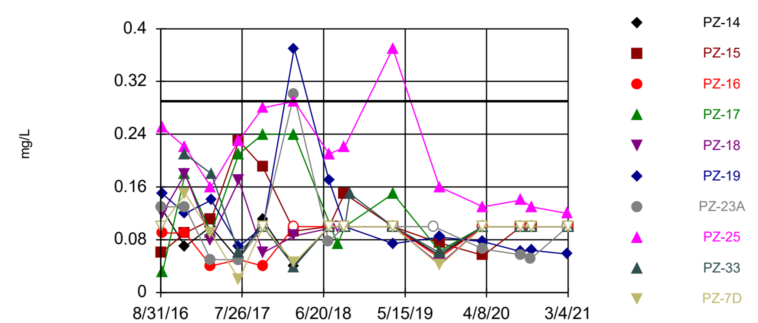
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
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 56 background values. 46.43% NDs. Annual per-constituent alpha = 0.01198. Individual comparison alpha = 0.0006023 (1 of 2). Comparing 10 points to limit.

Constituent: Fluoride Analysis Run 3/29/2021 1:55 PM View: Appendix III

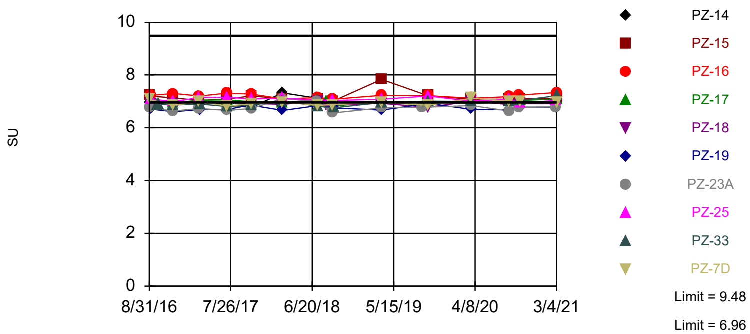
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Exceeds Limits: PZ-18, PZ-19, PZ-23A, PZ-7D

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 52 background values. Annual per-constituent alpha = 0.02733. Individual comparison alpha = 0.001376 (1 of 2). Comparing 10 points to limit.

Constituent: pH Analysis Run 3/29/2021 1:55 PM View: Appendix III

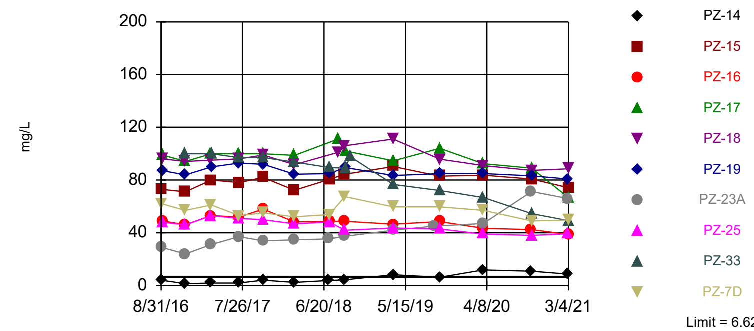
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

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 cube root transformation): Mean=1.415, Std. Dev.=0.2282, n=52. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9435, critical = 0.937. Kappa = 2.027 (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 3/29/2021 1:55 PM View: Appendix III

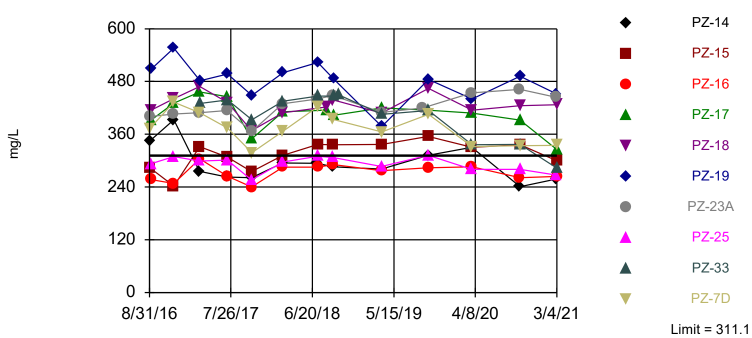
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Exceeds Limit: PZ-17, PZ-18, PZ-19, PZ-23A, PZ-7D

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=173.5, Std. Dev.=67.92, n=52. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.964, critical = 0.937. Kappa = 2.027 (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 3/29/2021 1:55 PM View: Appendix III

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/29/2021 1:59 PM View: Appendix III

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	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							0.355	0.276	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							0.351	0.303	0.588
3/21/2017	0.0082 (J)	0.0198 (J)	0.172						
3/22/2017				0.365	0.205	0.218	0.405	0.342	
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		0.35	0.278	0.598
10/17/2017	0.0083 (J)								
10/18/2017		0.0212 (J)	0.158		0.197	0.195	0.37	0.277	
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	0.33	0.29	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		0.39	0.3	0.52
3/3/2021	0.01 (J)	0.028 (J)	0.16						0.5
3/4/2021				0.2	0.16	0.2	0.37	0.22	
3/8/2021									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/29/2021 1:59 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-31 (bg)	PZ-32 (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			0.0174 (J)	0.0156 (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			0.0116 (J)	0.0142 (J)	
10/18/2017	0.186				
10/19/2017		0.413			
2/20/2018			0.046 (J)	0.011 (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		0.011 (J)	0.016 (J)	
3/26/2020		0.38			
10/6/2020			0.011 (J)	0.015 (J)	0.018 (J)
10/7/2020	0.18	0.35			
3/3/2021	0.2		0.0087 (J)	0.022 (J)	
3/4/2021		0.34			
3/8/2021					0.013 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/29/2021 1:59 PM View: Appendix III
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	40.4								
8/31/2016		92.9	132						
9/1/2016				101	74.8				
9/6/2016						74.6			
9/7/2016							112	100	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							113	102	135
3/21/2017	44.1	95	138						
3/22/2017				111	99.3	77.8	122	113	
3/23/2017									137
7/11/2017	47.4	97.1	139			77.3			
7/12/2017				119	91.4		129	110	145
10/17/2017	48.7								
10/18/2017		100	144		92	84.7	125	122	
10/19/2017				107					140
2/20/2018	46.8	93.1	142						
2/21/2018				118	89	81.8	118	107	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		129	112	144
3/3/2021	54.7	114	154						142
3/4/2021				122	107	90.9	138	113	
3/8/2021									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/29/2021 1:59 PM View: Appendix III

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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/29/2021 1:59 PM View: Appendix III

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									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/29/2021 1:59 PM View: Appendix III
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	4				
10/18/2016		3.5	4.5		
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	3.1	4.7		
7/12/2017				6	
10/17/2017		3	4.6		
10/18/2017	2.9				
10/19/2017				6.4	
2/20/2018		3	4.4		
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		2.8	4		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	2.2	3		
3/26/2020				2.9	
10/6/2020		2.3	3.4		2.3
10/7/2020	1.8			2	
3/3/2021	1.6	2.2	3.1		
3/4/2021				1.8	
3/8/2021					2.4

Prediction Limit

Constituent: Fluoride (mg/L)   Analysis Run 3/29/2021 1:59 PM   View: Appendix III

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	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							0.03 (J)	0.12 (J)	0.15 (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							0.18 (J)	0.18 (J)	0.12 (J)
3/21/2017	0.004 (J)	<0.1	0.05 (J)						
3/22/2017				0.11 (J)	0.09 (J)	0.04 (J)	0.09 (J)	0.08 (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)		0.21 (J)	0.17 (J)	0.07 (J)
10/17/2017	<0.1								
10/18/2017		0.11 (J)	<0.1	0.19 (J)		0.04 (J)	0.24 (J)	0.06 (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	0.24 (J)	0.086 (J)	0.37
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		0.15		0.074
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)			0.043 (X)	0.084 (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		<0.1	0.077 (J)
8/25/2020	<0.1								
8/26/2020		<0.1	0.057 (J)	<0.1	<0.1	<0.1	<0.1		0.062 (J)
8/27/2020								<0.1	
10/6/2020	<0.1	<0.1	0.052 (J)			<0.1			
10/7/2020				<0.1	<0.1		<0.1	<0.1	0.064 (J)
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									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/29/2021 1:59 PM View: Appendix III

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

Prediction Limit

Constituent: pH (SU)   Analysis Run 3/29/2021 1:59 PM   View: Appendix III

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-19	PZ-18	PZ-17
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							6.71	6.92	7.02
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							6.61	6.9	6.95
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		6.69	6.95	7.06
10/17/2017	7.7								
10/18/2017		6.77	6.73		7.2	7.28	6.88		6.99
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	6.66	6.89	6.95
7/11/2018	7.48	7.12	7						
7/12/2018				6.85	7.07	7.14	6.84	7.01	7.06
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							6.76		6.83
3/26/2019	7.49								
3/27/2019		6.98	6.75			7.23		6.92	
3/28/2019				6.96	7.84		6.67		6.97
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			6.93	6.78	
3/24/2020	7.79								
3/25/2020		7.02	6.84						6.93
3/26/2020				7.12	7.08	7.12	6.7	7.01	
8/25/2020	7.49								
8/26/2020		6.98	6.64	7.01	7.08	7.18	6.68		6.98
8/27/2020								6.88	
10/6/2020	7.35	7.01	6.78			7.24			
10/7/2020				6.98	7.11		6.78	6.91	7.04
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									

Prediction Limit

Constituent: pH (SU) Analysis Run 3/29/2021 1:59 PM View: Appendix III
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

Prediction Limit

Constituent: Sulfate (mg/L)   Analysis Run 3/29/2021 1:59 PM   View: Appendix III

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									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/29/2021 1:59 PM View: Appendix III
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	48				
10/18/2016		2.3	2.2		
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	1.8	4.8		
7/12/2017				97	
10/17/2017		1.9	6.4		
10/18/2017	50				
10/19/2017				97	
2/20/2018		2.1	5.2		
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		2	3.6		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	1.9	1.5		
3/26/2020				66.6	
10/6/2020		1.9	0.98 (J)		3.1
10/7/2020	38.1			54.6	
3/3/2021	39.2	2	0.6 (J)		
3/4/2021				49.3	
3/8/2021					2.7

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/29/2021 1:59 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-18	PZ-17	PZ-19
8/30/2016	136								
8/31/2016		344	400						
9/1/2016				284	373				
9/6/2016						257			
9/7/2016							415	392	508
9/8/2016									
10/18/2016									
12/6/2016	207								
12/7/2016		393	406	242	433	248			
12/8/2016							441	431	556
3/21/2017	128	276	409						
3/22/2017				332	409	304	469	456	
3/23/2017									482
7/11/2017	138	263	414			265			
7/12/2017				308	374		432	445	497
10/17/2017	101								
10/18/2017		261	366	275		240	368	349	
10/19/2017					318				448
2/20/2018	138	295	429						
2/21/2018				312	367	285	409	411	500
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								403	486
10/4/2018									
10/24/2018									
3/26/2019	334								
3/27/2019		281	410			277	408		
3/28/2019				337	365			420	378
9/10/2019			420						
10/1/2019	146								
10/2/2019		312		355		284		415	
10/3/2019					405		464		485
3/24/2020	228								
3/25/2020		330	454					408	
3/26/2020				330	332	286	415		440
10/6/2020	153	241	462			261			
10/7/2020				336	334		425	392	492
3/3/2021	134	258	444						452
3/4/2021				300	335	264	427	325	
3/8/2021									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/29/2021 1:59 PM View: Appendix III

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

FIGURE E.

Trend Tests - Prediction Limit Exceedances - Significant Results

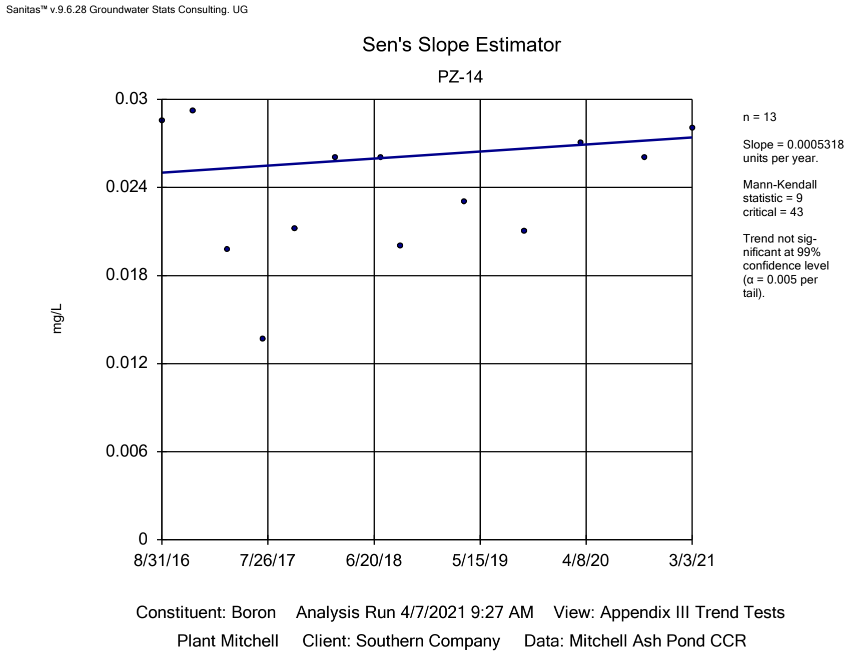
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 4/7/2021, 9:30 AM

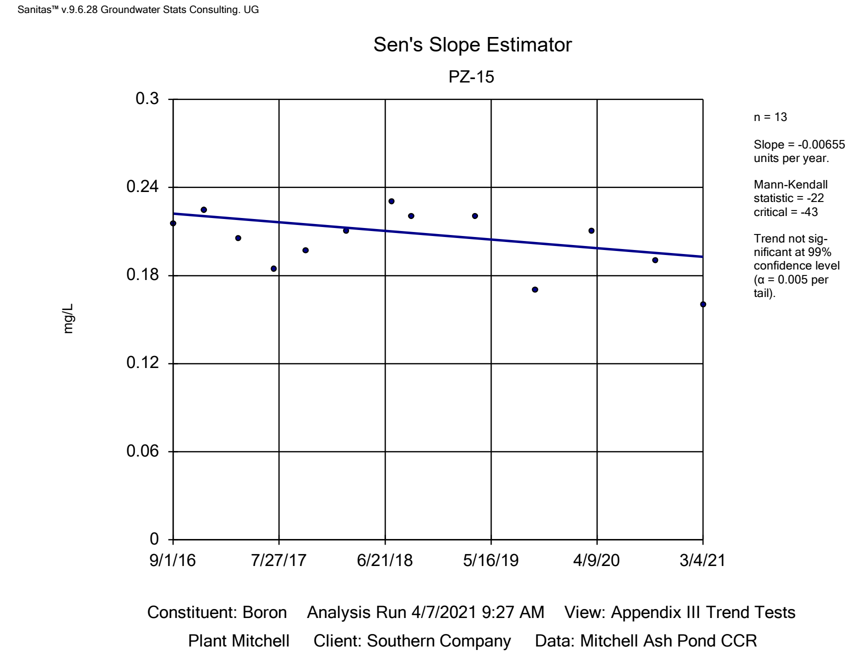
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**PZ-7D**	**-0.04161**	**-52**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-14**	**4.461**	**57**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**5.393**	**49**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-31 (bg)**	**2.947**	**45**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-16**	**-0.328**	**-44**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-31 (bg)**	**-0.4113**	**-53**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-14**	**1.83**	**55**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-16**	**-2.833**	**-44**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-23A**	**6.884**	**68**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-3.09**	**-50**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-31 (bg)**	**-1.26**	**-55**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-33**	**-11.71**	**-66**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**PZ-23A**	**14.87**	**50**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**

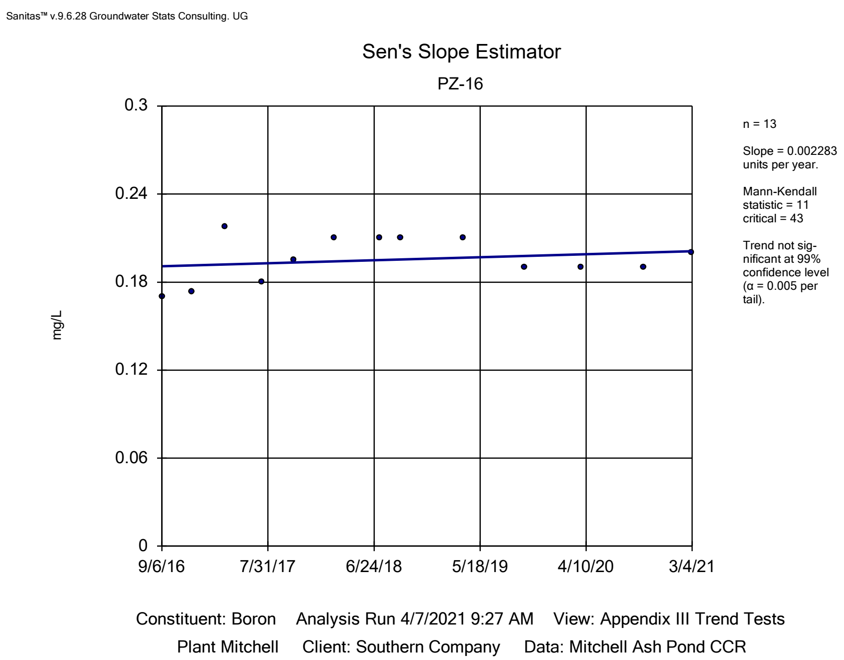
Trend Tests - Prediction Limit Exceedances - All Results

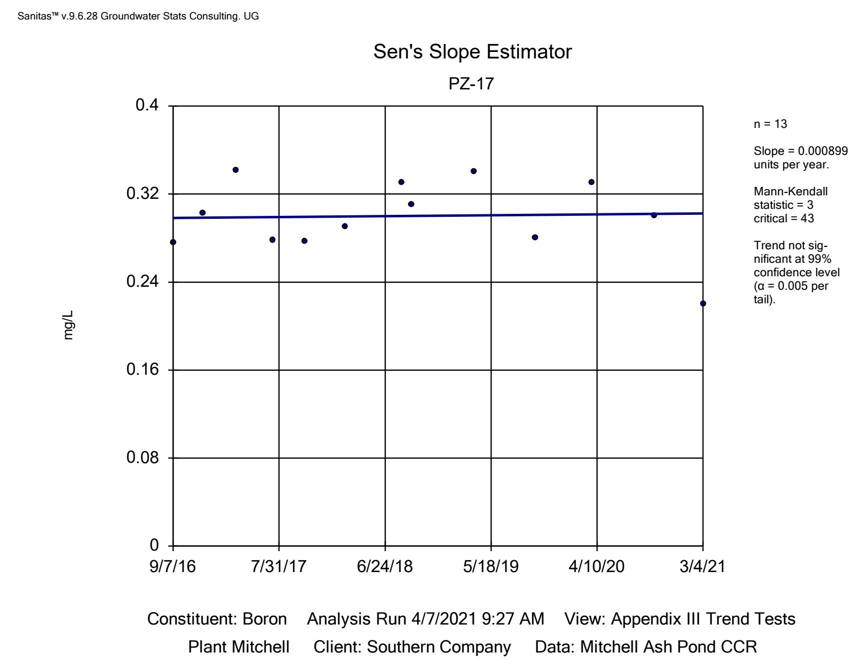
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 4/7/2021, 9:30 AM

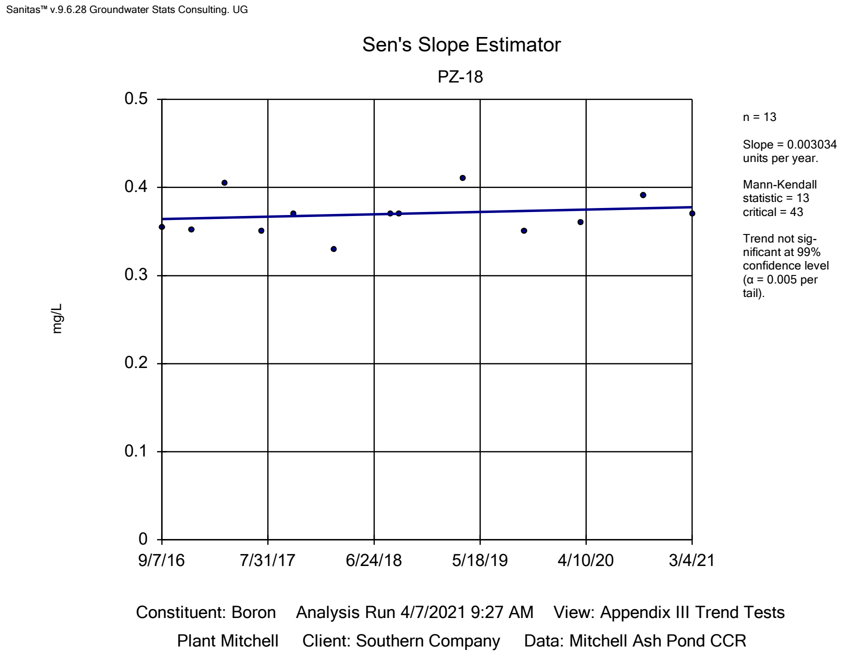
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-14	0.0005318	9	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-15	-0.00655	-22	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0.002283	11	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-17	0.000899	3	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-18	0.003034	13	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.02363	-22	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.00004716	1	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-23A	0	-2	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.002954	-15	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-2D (bg)	-0.0005962	-12	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-31 (bg)	-0.001685	-31	-43	No	13	7.692	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	0.0001928	5	43	No	13	7.692	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-33	-0.01081	-42	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-7D**	**-0.04161**	**-52**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-14**	**4.461**	**57**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-17	2.602	29	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-18**	**5.393**	**49**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-19	1.408	16	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-1D (bg)	1.944	38	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-23A	4.923	37	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	5.858	32	43	No	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-31 (bg)**	**2.947**	**45**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-32 (bg)	1.7	32	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-7D	4.55	41	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.1368	-19	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-16**	**-0.328**	**-44**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-18	-0.2815	-42	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-1D (bg)	-0.0626	-22	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-23A	-0.09968	-11	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	-0.0439	-12	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-31 (bg)**	**-0.4113**	**-53**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-32 (bg)	-0.2364	-41	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-18	-0.006518	-14	-48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.009682	15	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-1D (bg)	-0.02468	-19	-48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.01518	19	48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.3577	-14	-25	No	9	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	0	0	48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	-0.004097	-4	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-7D	0.01185	10	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-14**	**1.83**	**55**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-15	1.847	28	43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-16**	**-2.833**	**-44**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-17	-2.368	-19	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-18	-1.301	-13	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-19	-1.389	-33	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-1D (bg)	0.07697	14	43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-23A**	**6.884**	**68**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-3.09**	**-50**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-2D (bg)	-0.8052	-38	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-31 (bg)**	**-1.26**	**-55**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-32 (bg)	0.03023	12	43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-33**	**-11.71**	**-66**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-7D	-1.488	-23	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-17	-11.39	-26	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-18	-0.4574	-1	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-19	-12.76	-28	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-1D (bg)	4.77	19	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	**PZ-23A**	**14.87**	**50**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	PZ-2D (bg)	15.92	32	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-31 (bg)	0.3259	3	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-32 (bg)	1.218	11	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-7D	-11.45	-26	-43	No	13	0	n/a	n/a	0.01	NP

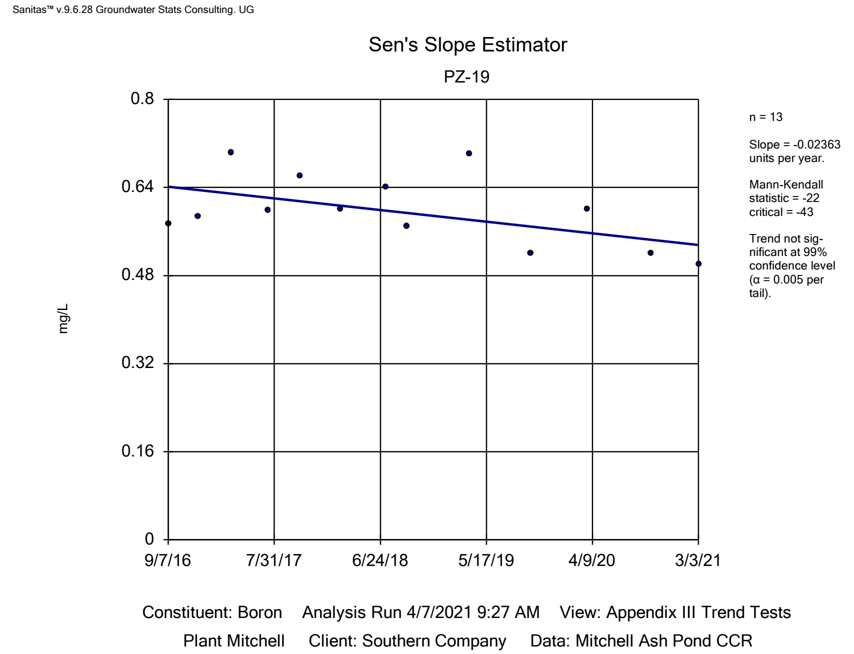

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-14
mg/L
0.03
0.024
0.018
0.012
0.006
0
8/31/16
7/26/17
6/20/18
5/15/19
4/8/20
3/3/21
n = 13
Slope = 0.0005318 units per year.
Mann-Kendall statistic = 9 critical = 43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

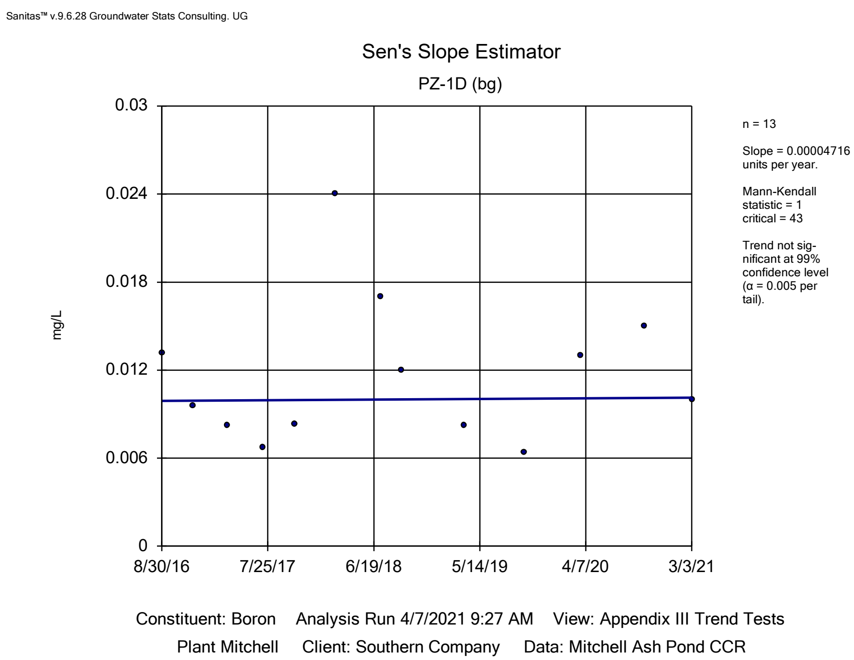

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-15
mg/L
0.3
0.24
0.18
0.12
0.06
0
9/1/16
7/27/17
6/21/18
5/16/19
4/9/20
3/4/21
n = 13
Slope = -0.00655 units per year.
Mann-Kendall statistic = -22 critical = -43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

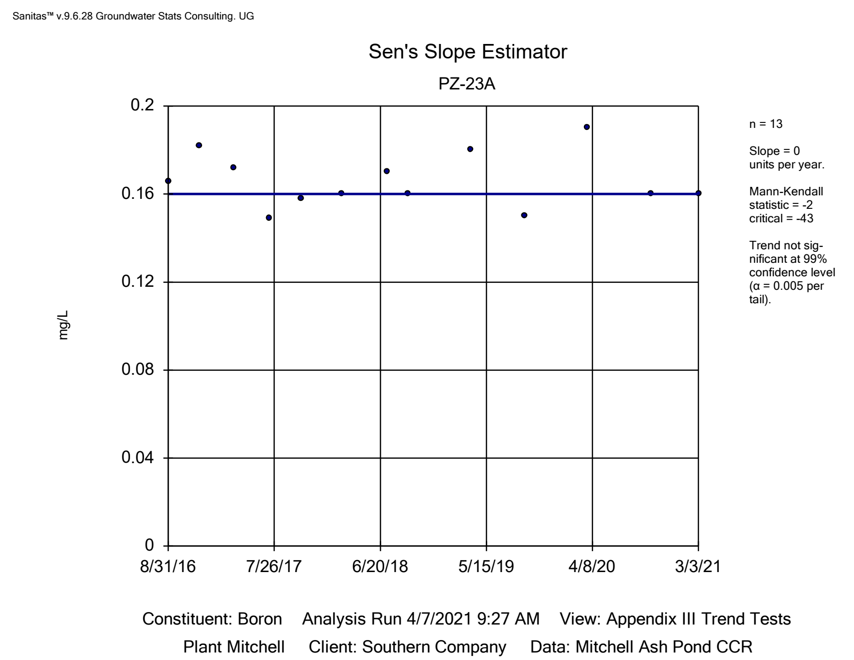

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-16
mg/L
0.3
0.24
0.18
0.12
0.06
0
9/6/16
7/31/17
6/24/18
5/18/19
4/10/20
3/4/21
n = 13
Slope = 0.002283 units per year.
Mann-Kendall statistic = 11 critical = 43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

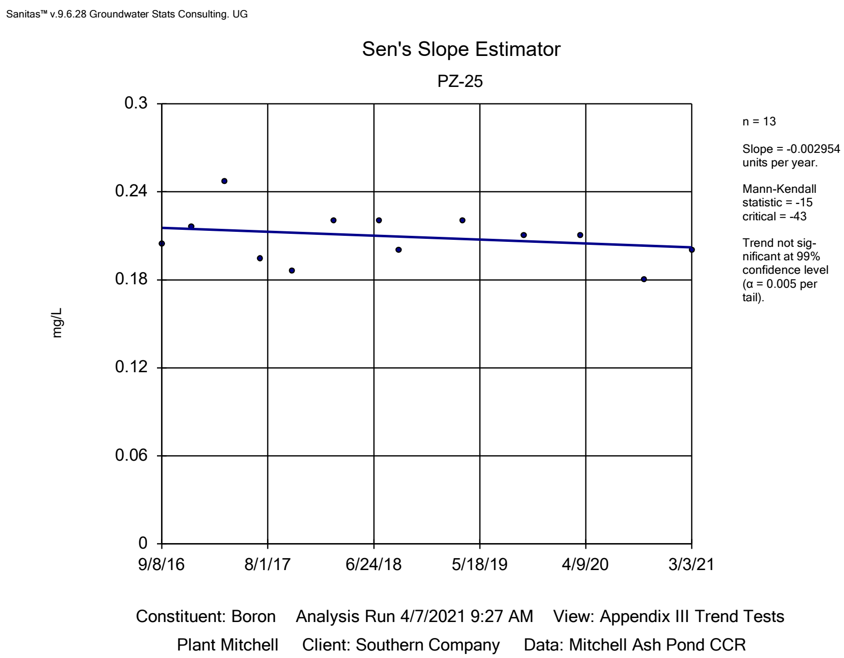

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-17
mg/L
0.4
0.32
0.24
0.16
0.08
0
9/7/16
7/31/17
6/24/18
5/18/19
4/10/20
3/4/21
n = 13
Slope = 0.000899 units per year.
Mann-Kendall statistic = 3 critical = 43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-18
mg/L
0.5
0.4
0.3
0.2
0.1
0
9/7/16
7/31/17
6/24/18
5/18/19
4/10/20
3/4/21
n = 13
Slope = 0.003034 units per year.
Mann-Kendall statistic = 13 critical = 43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

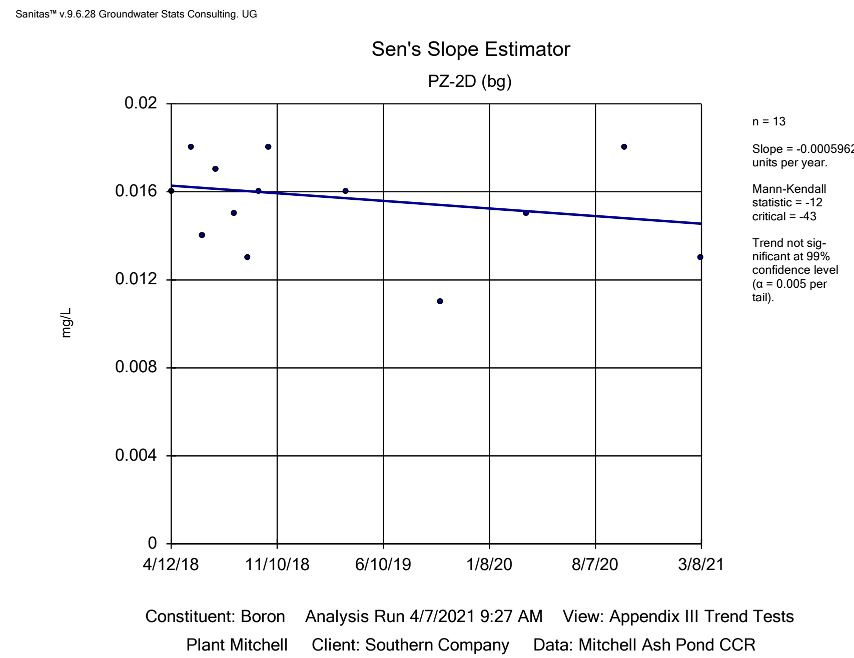

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-19
mg/L
0.8
0.64
0.48
0.32
0.16
0
9/7/16
7/31/17
6/24/18
5/17/19
4/9/20
3/3/21
n = 13
Slope = -0.02363 units per year.
Mann-Kendall statistic = -22 critical = -43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-1D (bg)
mg/L
0.03
0.024
0.018
0.012
0.006
0
8/30/16
7/25/17
6/19/18
5/14/19
4/7/20
3/3/21
n = 13
Slope = 0.00004716 units per year.
Mann-Kendall statistic = 1 critical = 43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

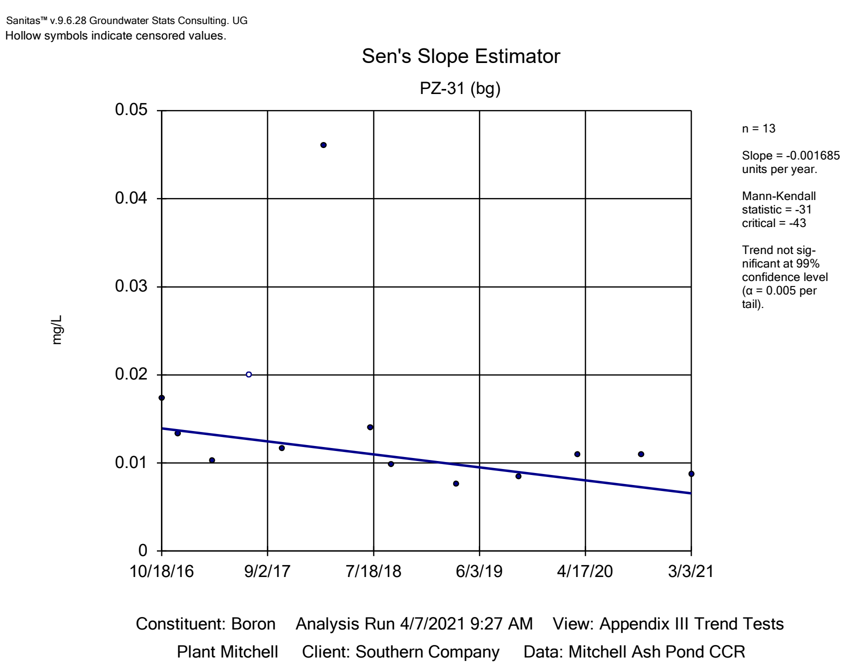

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-23A
mg/L
0.2
0.16
0.12
0.08
0.04
0
8/31/16
7/26/17
6/20/18
5/15/19
4/8/20
3/3/21
n = 13
Slope = 0 units per year.
Mann-Kendall statistic = -2 critical = -43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



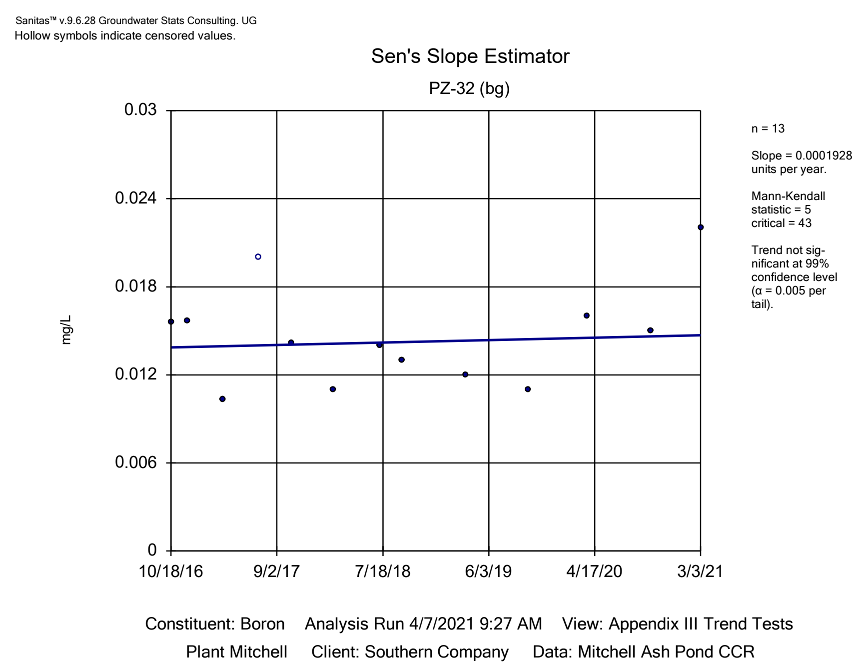
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-25
mg/L
0.3
0.24
0.18
0.12
0.06
0
9/8/16
8/1/17
6/24/18
5/18/19
4/9/20
3/3/21
n = 13
Slope = -0.002954 units per year.
Mann-Kendall statistic = -15 critical = -43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-2D (bg)
mg/L
0.02
0.016
0.012
0.008
0.004
0
4/12/18
11/10/18
6/10/19
1/8/20
8/7/20
3/8/21
n = 13
Slope = -0.0005962 units per year.
Mann-Kendall statistic = -12 critical = -43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

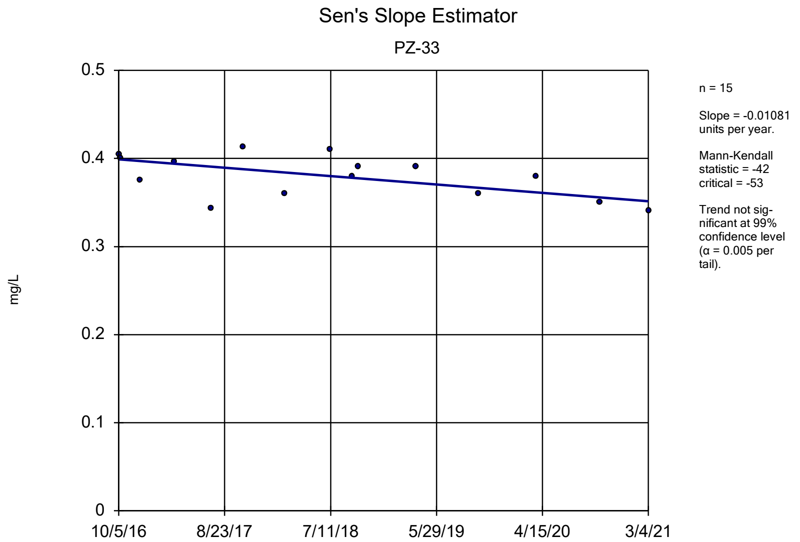


Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Sen's Slope Estimator
PZ-31 (bg)
mg/L
0.05
0.04
0.03
0.02
0.01
0
10/18/16
9/2/17
7/18/18
6/3/19
4/17/20
3/3/21
n = 13
Slope = -0.001685 units per year.
Mann-Kendall statistic = -31 critical = -43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



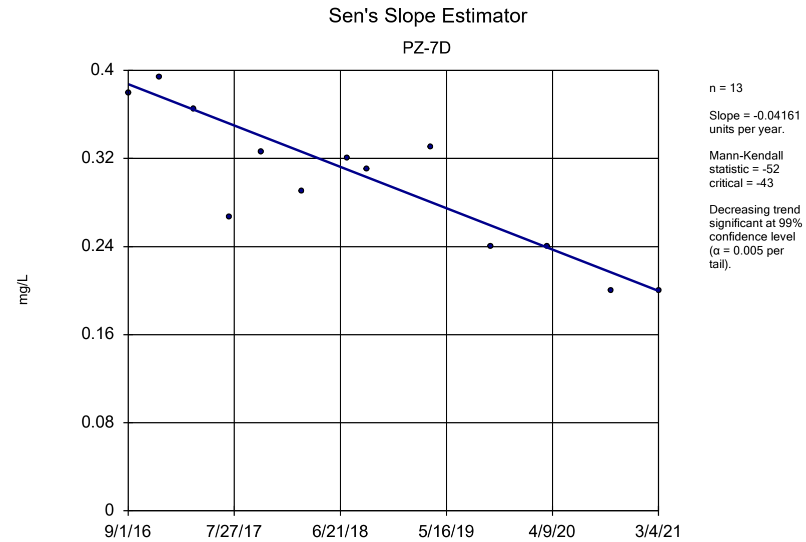
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Sen's Slope Estimator
PZ-32 (bg)
mg/L
0.03
0.024
0.018
0.012
0.006
0
10/18/16
9/2/17
7/18/18
6/3/19
4/17/20
3/3/21
n = 13
Slope = 0.0001928 units per year.
Mann-Kendall statistic = 5 critical = 43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Boron Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



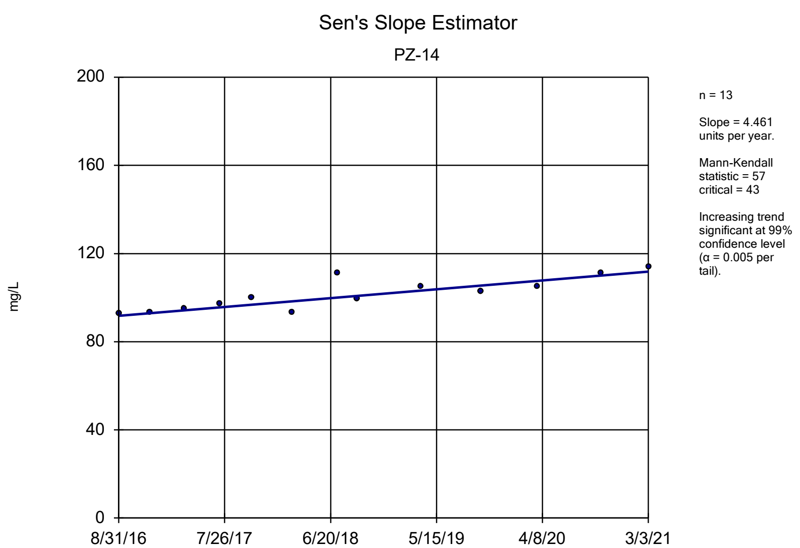
Constituent: Boron Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



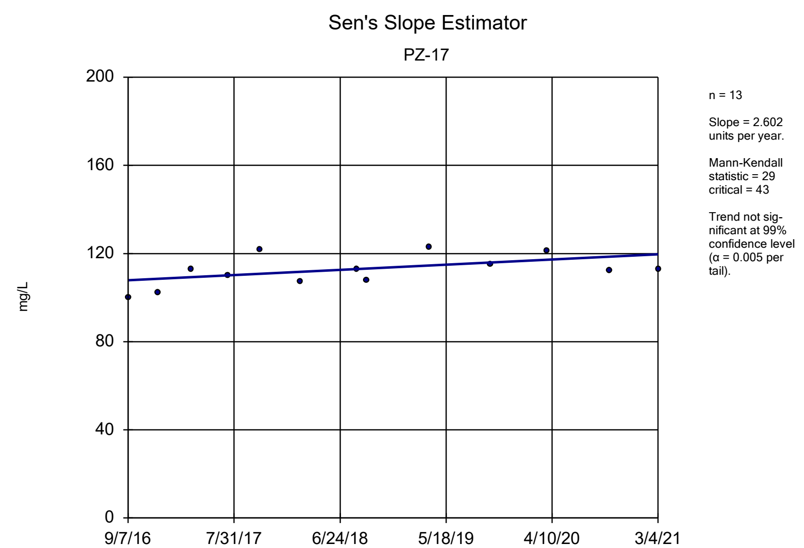
Constituent: Boron Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

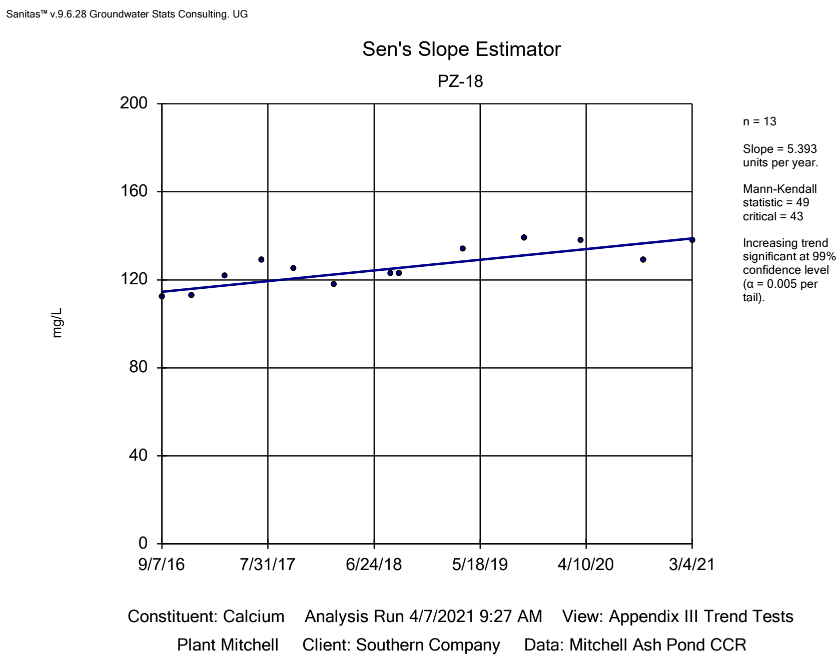


Constituent: Calcium Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

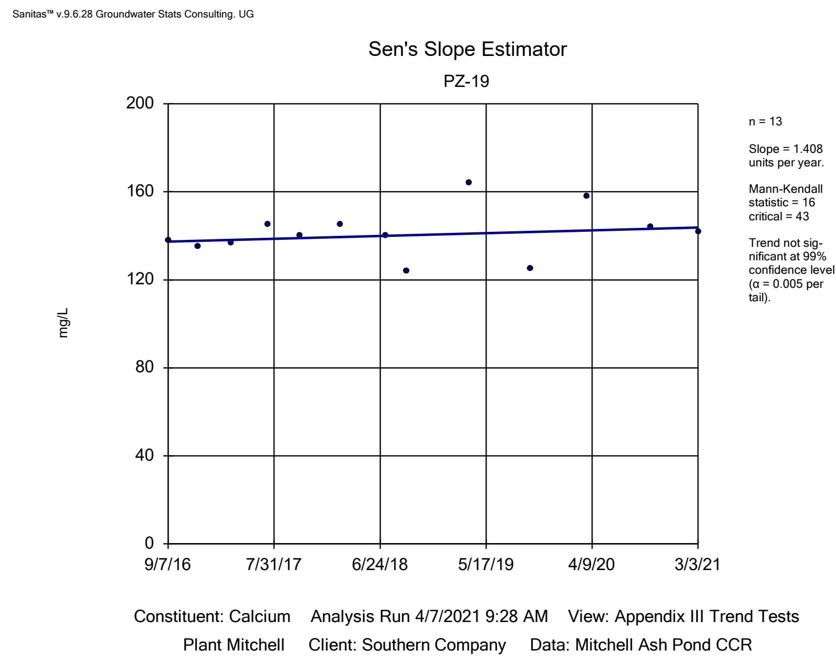
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



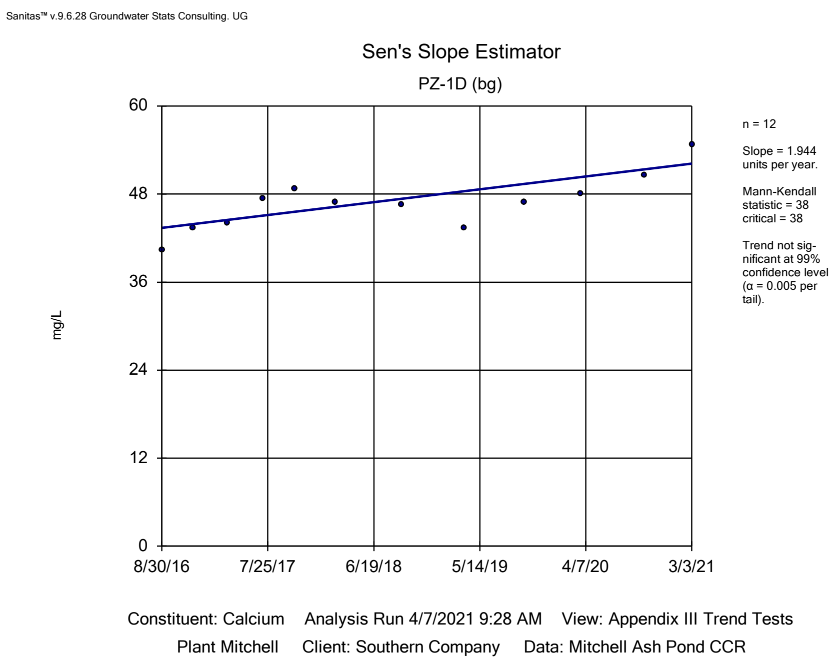
Constituent: Calcium Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



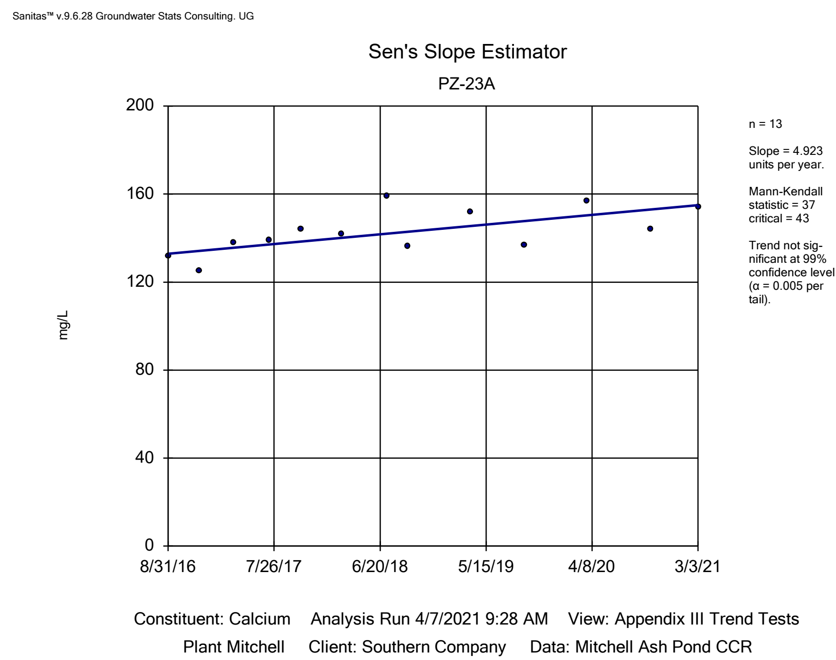
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-18
200
160
120
80
40
0
mg/L
9/7/16
7/31/17
6/24/18
5/18/19
4/10/20
3/4/21
n = 13
Slope = 5.393 units per year.
Mann-Kendall statistic = 49 critical = 43
Increasing trend significant at 99% confidence level (α = 0.005 per tail).
Constituent: Calcium Analysis Run 4/7/2021 9:27 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



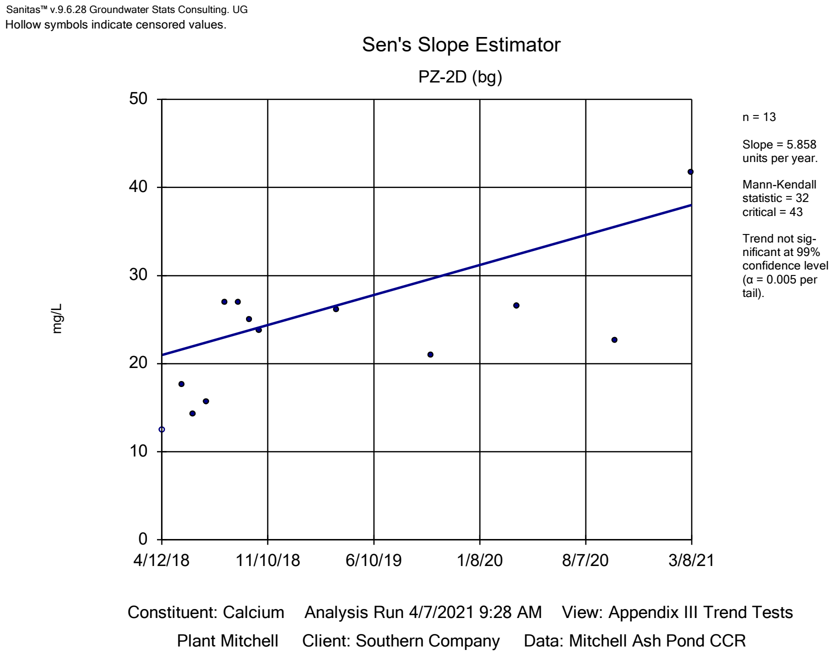
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-19
200
160
120
80
40
0
mg/L
9/7/16
7/31/17
6/24/18
5/17/19
4/9/20
3/3/21
n = 13
Slope = 1.408 units per year.
Mann-Kendall statistic = 16 critical = 43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Calcium Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

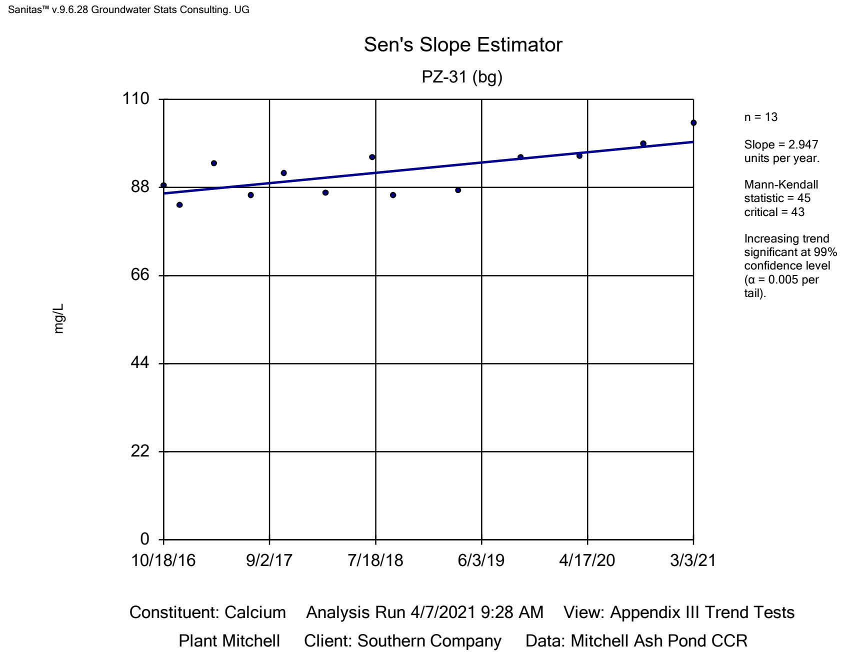


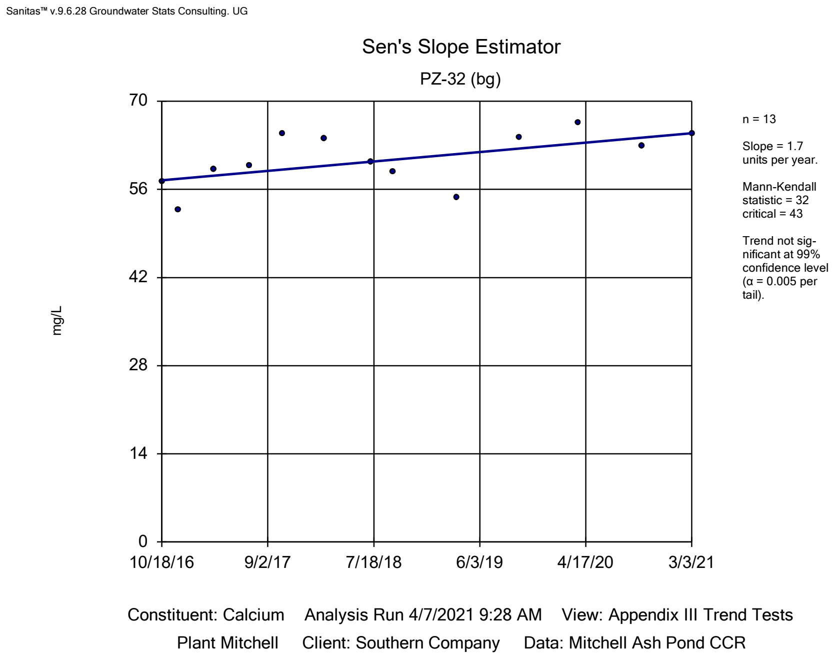
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-1D (bg)
60
48
36
24
12
0
mg/L
8/30/16
7/25/17
6/19/18
5/14/19
4/7/20
3/3/21
n = 12
Slope = 1.944 units per year.
Mann-Kendall statistic = 38 critical = 38
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Calcium Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

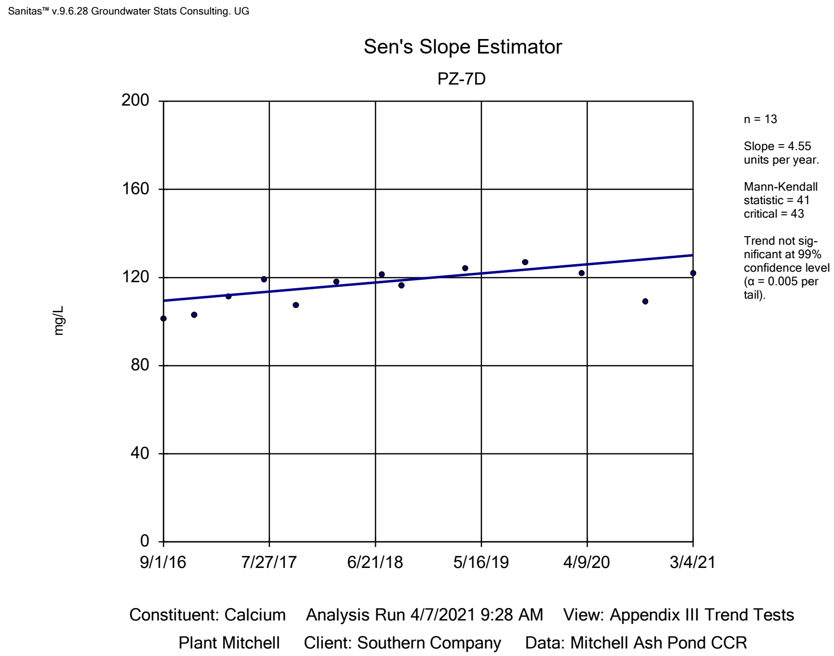


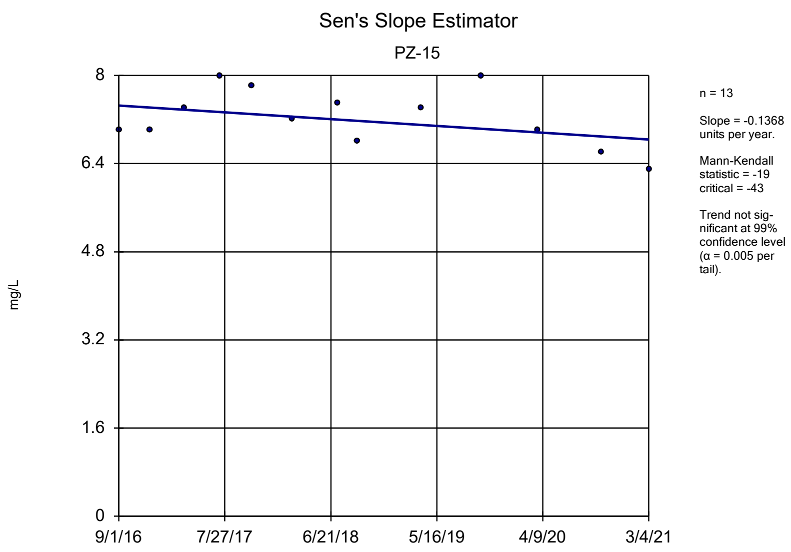
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-23A
200
160
120
80
40
0
mg/L
8/31/16
7/26/17
6/20/18
5/15/19
4/8/20
3/3/21
n = 13
Slope = 4.923 units per year.
Mann-Kendall statistic = 37 critical = 43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Calcium Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Sen's Slope Estimator
PZ-2D (bg)
n = 13
Slope = 5.858 units per year.
Mann-Kendall statistic = 32 critical = 43
Trend not significant at 99% confidence level (α = 0.005 per tail).
mg/L
50
40
30
20
10
0
4/12/18
11/10/18
6/10/19
1/8/20
8/7/20
3/8/21
Constituent: Calcium Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-31 (bg)
n = 13
Slope = 2.947 units per year.
Mann-Kendall statistic = 45 critical = 43
Increasing trend significant at 99% confidence level (α = 0.005 per tail).
mg/L
110
88
66
44
22
0
10/18/16
9/2/17
7/18/18
6/3/19
4/17/20
3/3/21
Constituent: Calcium Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

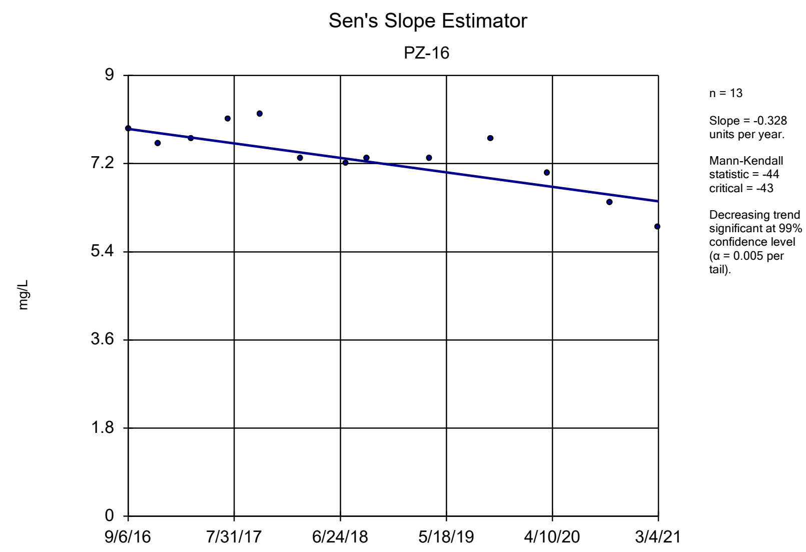

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-32 (bg)
n = 13
Slope = 1.7 units per year.
Mann-Kendall statistic = 32 critical = 43
Trend not significant at 99% confidence level (α = 0.005 per tail).
mg/L
70
56
42
28
14
0
10/18/16
9/2/17
7/18/18
6/3/19
4/17/20
3/3/21
Constituent: Calcium Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR


Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-7D
n = 13
Slope = 4.55 units per year.
Mann-Kendall statistic = 41 critical = 43
Trend not significant at 99% confidence level (α = 0.005 per tail).
mg/L
200
160
120
80
40
0
9/1/16
7/27/17
6/21/18
5/16/19
4/9/20
3/4/21
Constituent: Calcium Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



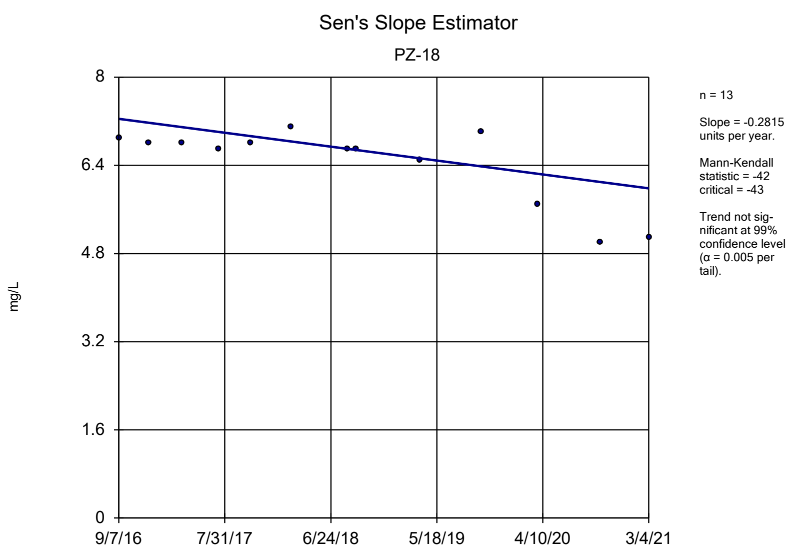
Constituent: Chloride Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



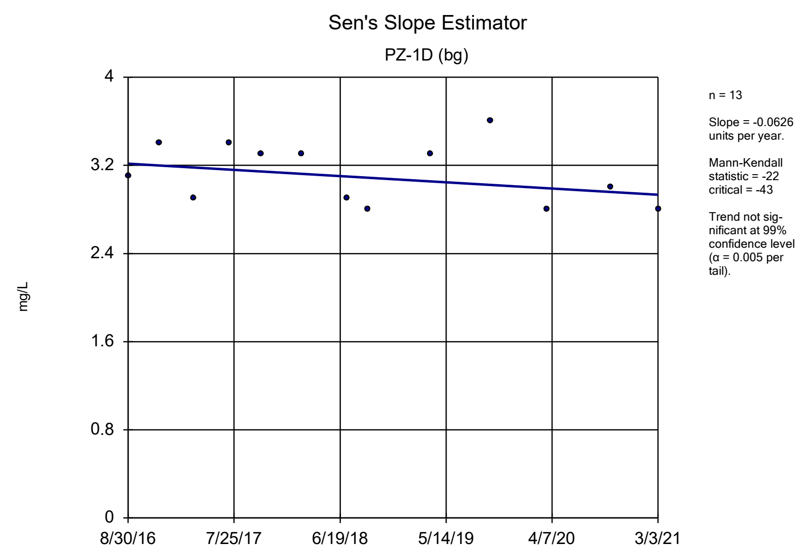
Constituent: Chloride Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



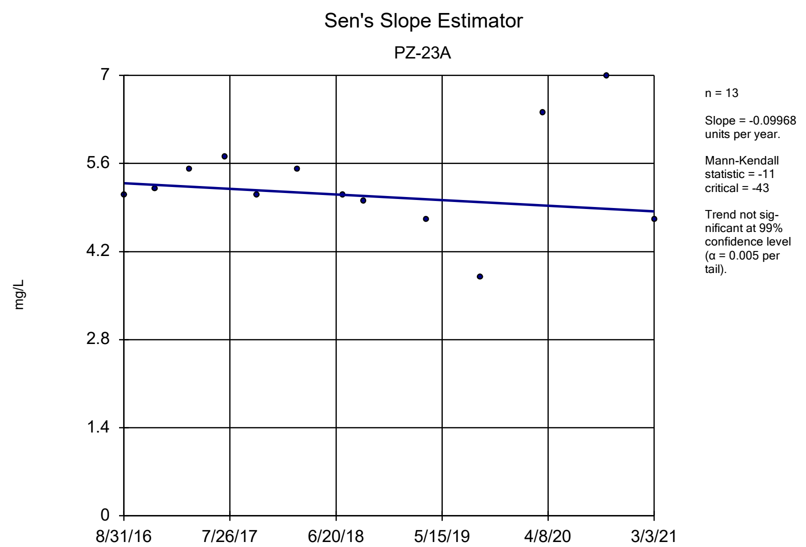
Constituent: Chloride Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



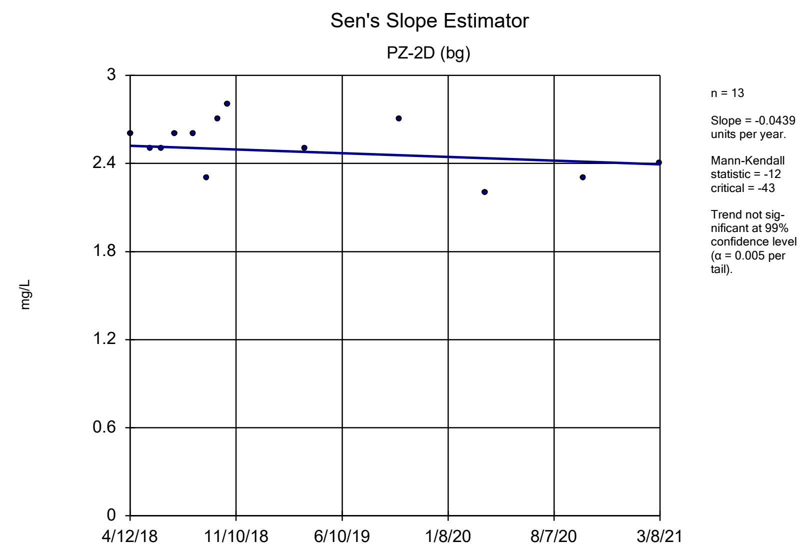
Constituent: Chloride Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



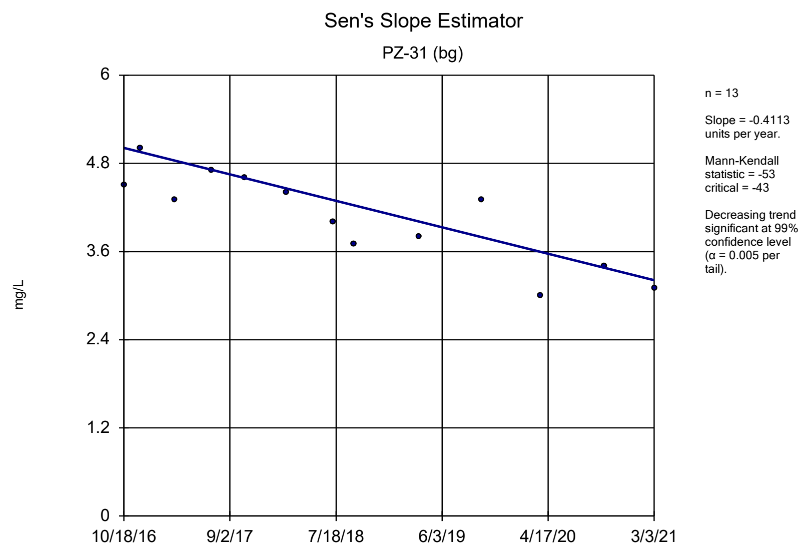
Constituent: Chloride Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



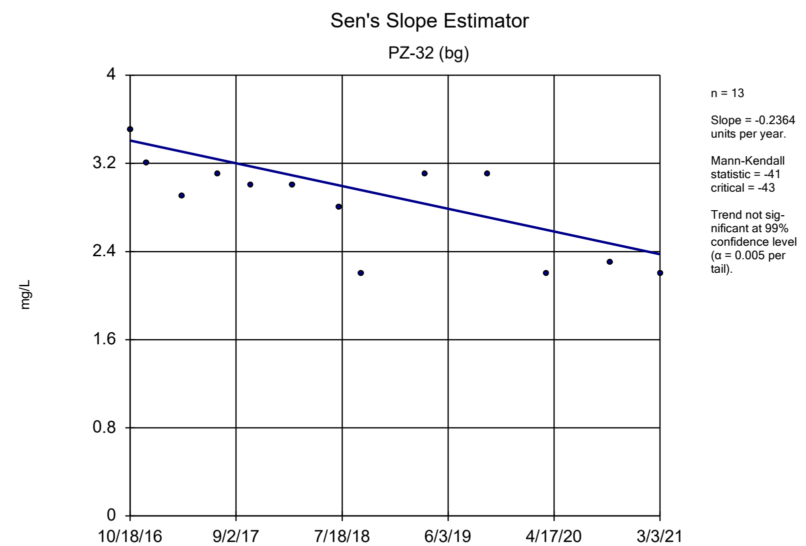
Constituent: Chloride Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

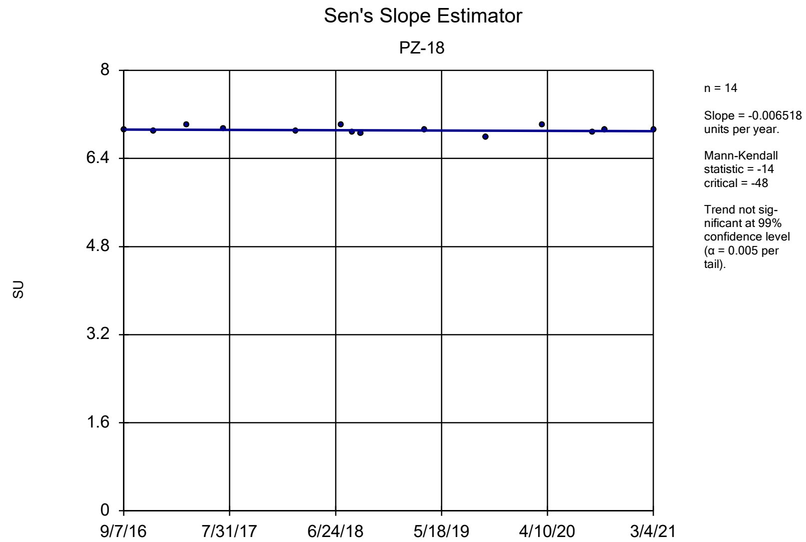


Constituent: Chloride Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

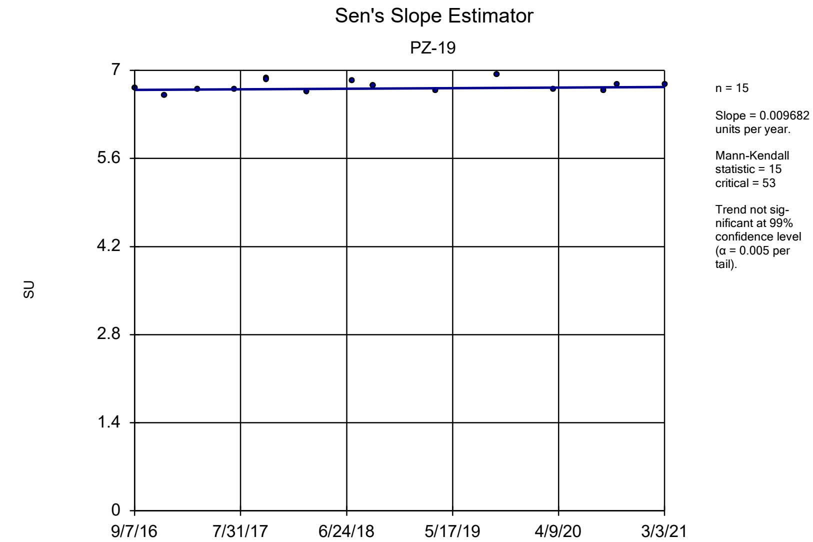


Constituent: Chloride Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



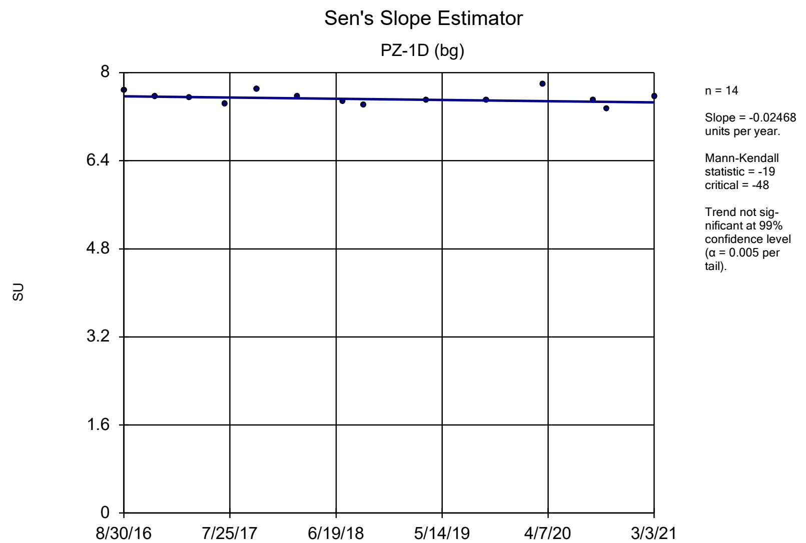
Constituent: pH Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



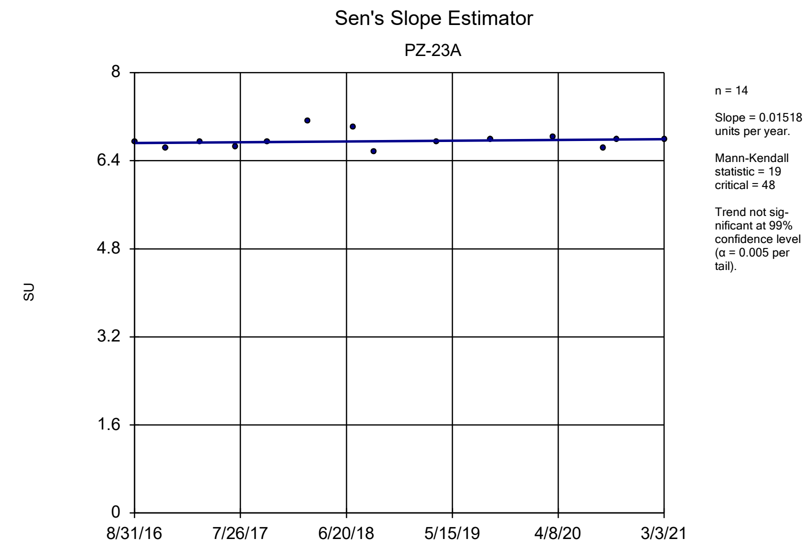
Constituent: pH Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

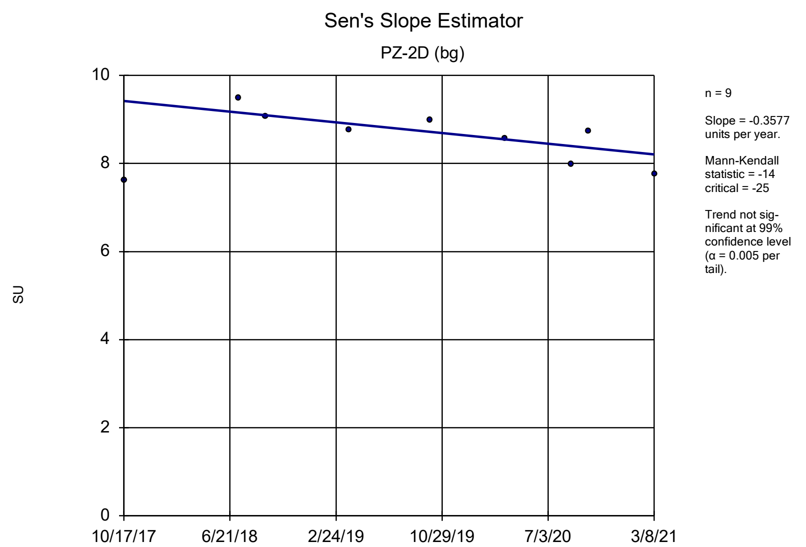


Constituent: pH Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

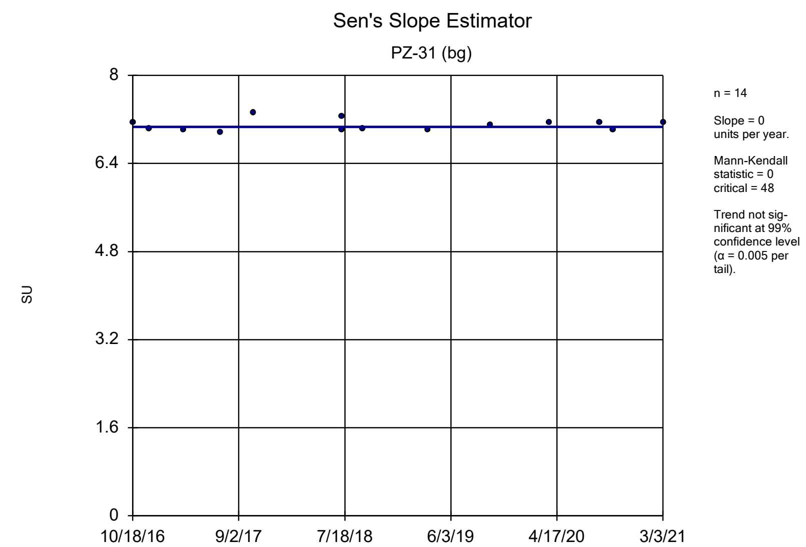


Constituent: pH Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



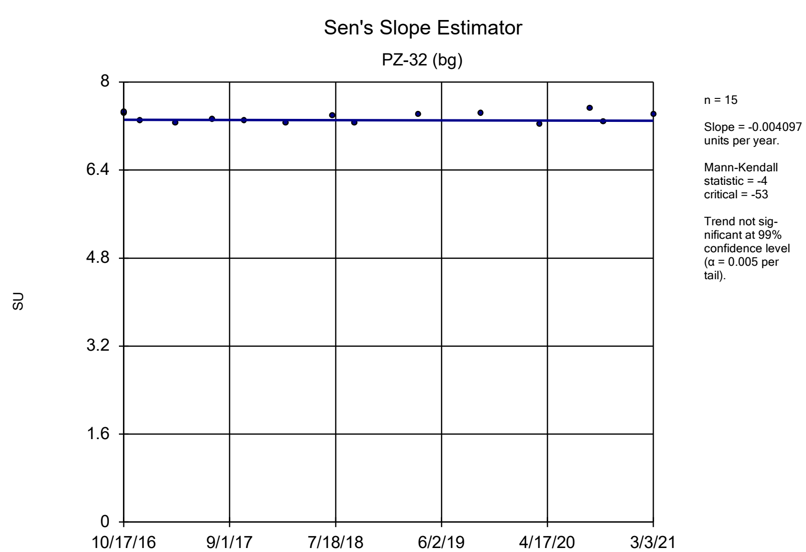
Constituent: pH Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



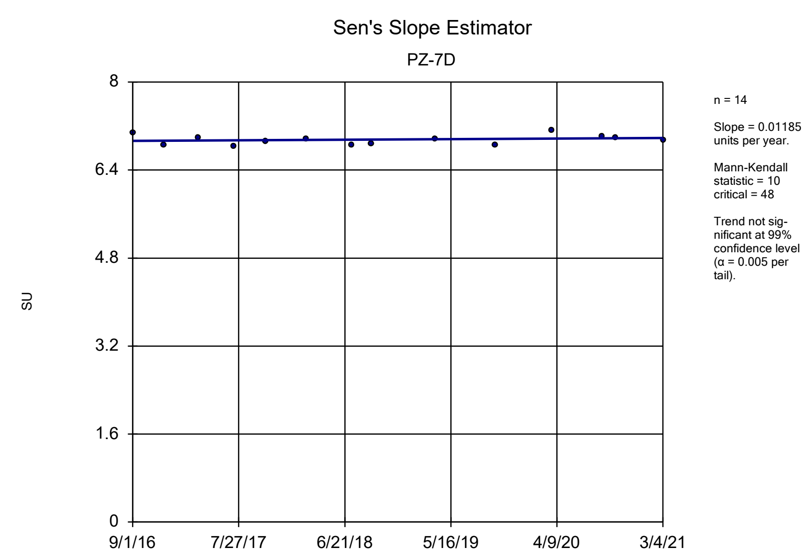
Constituent: pH Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

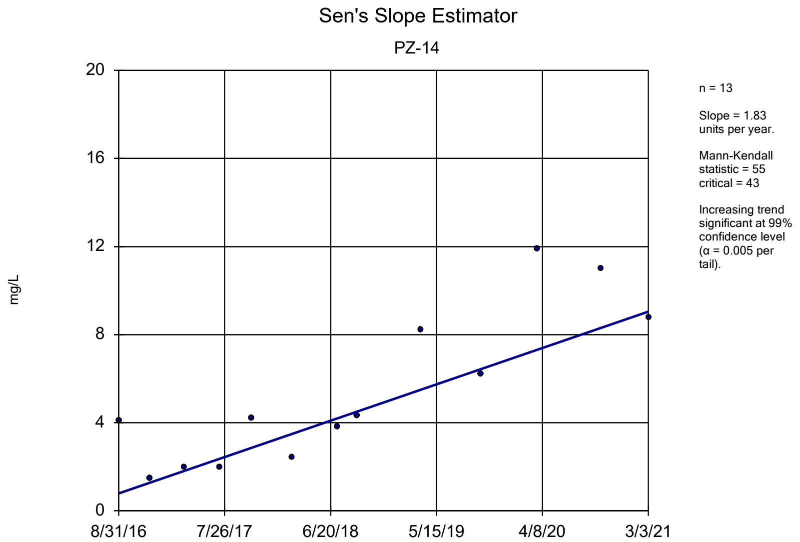


Constituent: pH Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

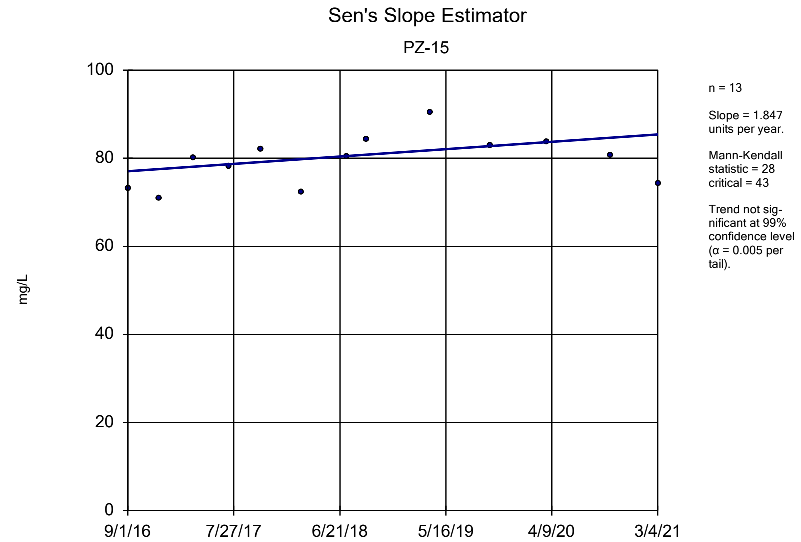


Constituent: pH Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



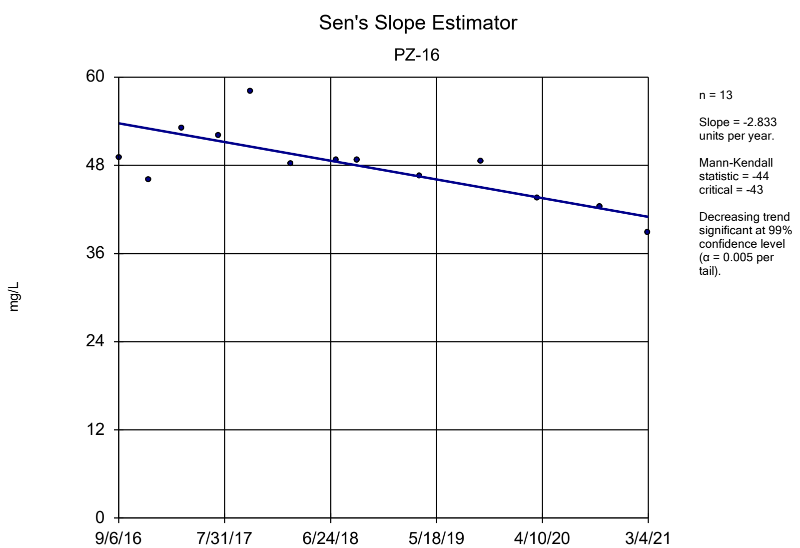
Constituent: Sulfate Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



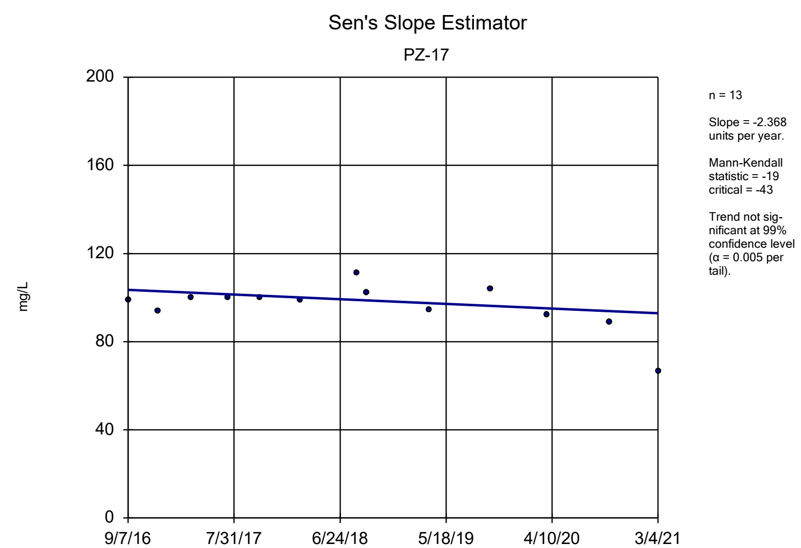
Constituent: Sulfate Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

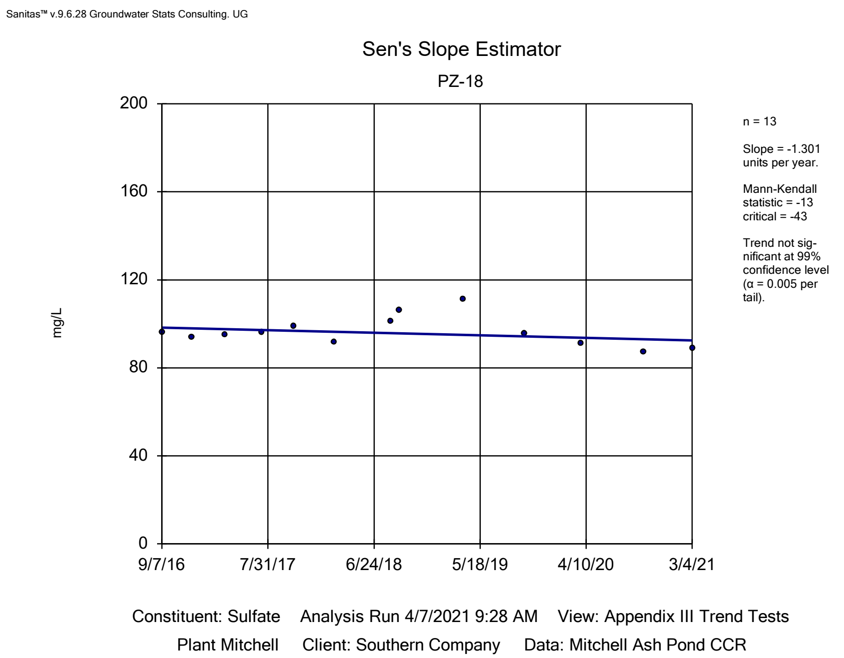


Constituent: Sulfate Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

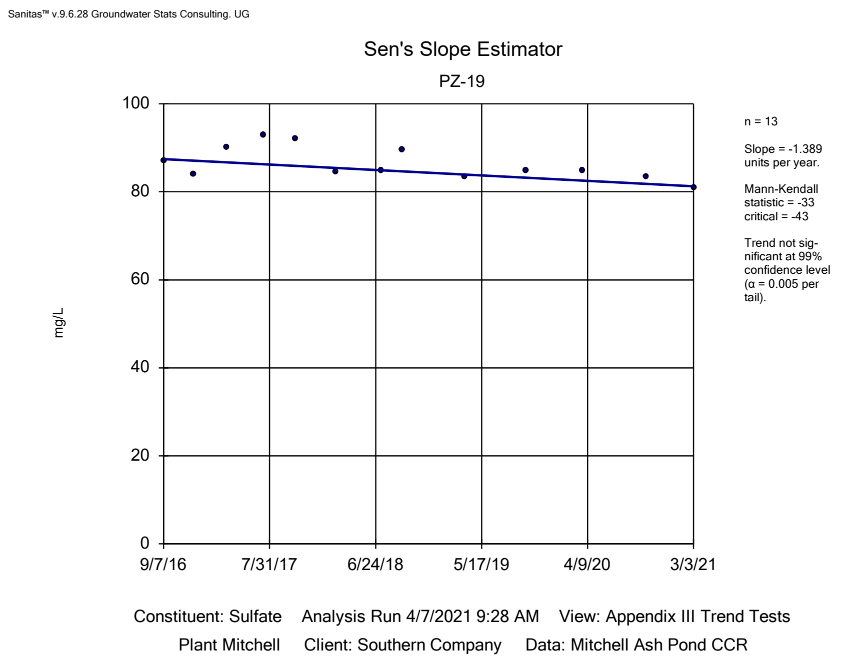
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



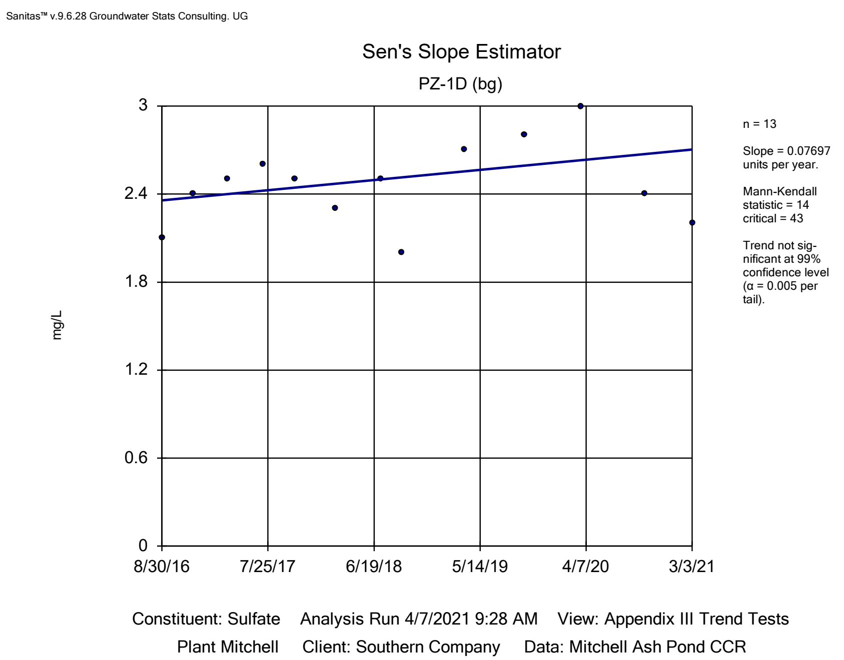
Constituent: Sulfate Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



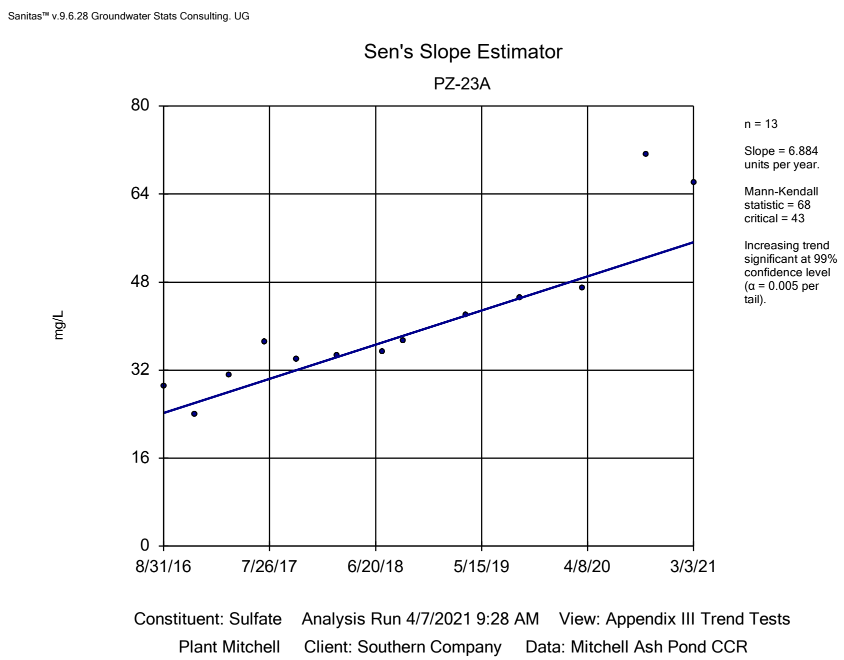
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-18
mg/L
n = 13
Slope = -1.301 units per year.
Mann-Kendall statistic = -13 critical = -43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Sulfate Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



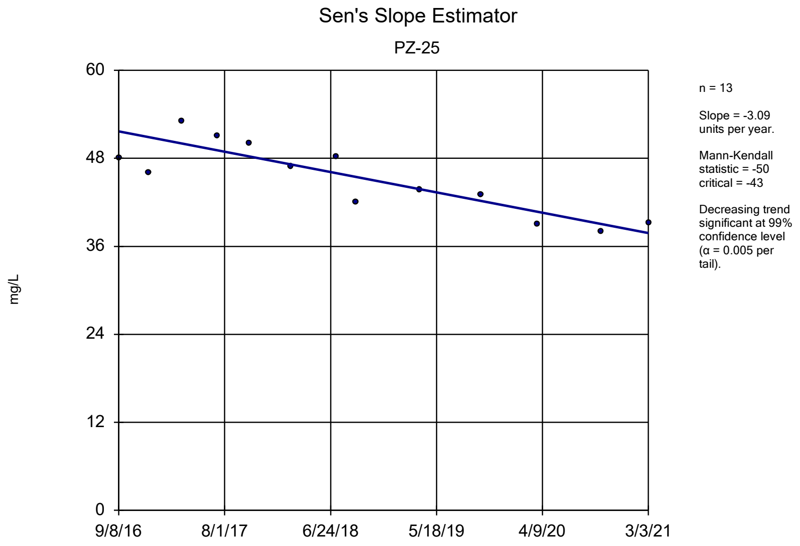
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-19
mg/L
n = 13
Slope = -1.389 units per year.
Mann-Kendall statistic = -33 critical = -43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Sulfate Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-1D (bg)
mg/L
n = 13
Slope = 0.07697 units per year.
Mann-Kendall statistic = 14 critical = 43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: Sulfate Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

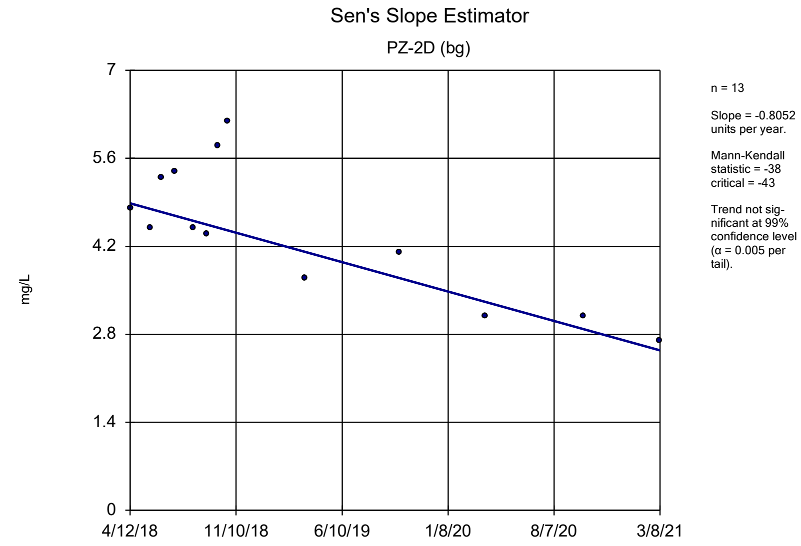


Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-23A
mg/L
n = 13
Slope = 6.884 units per year.
Mann-Kendall statistic = 68 critical = 43
Increasing trend significant at 99% confidence level (α = 0.005 per tail).
Constituent: Sulfate Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



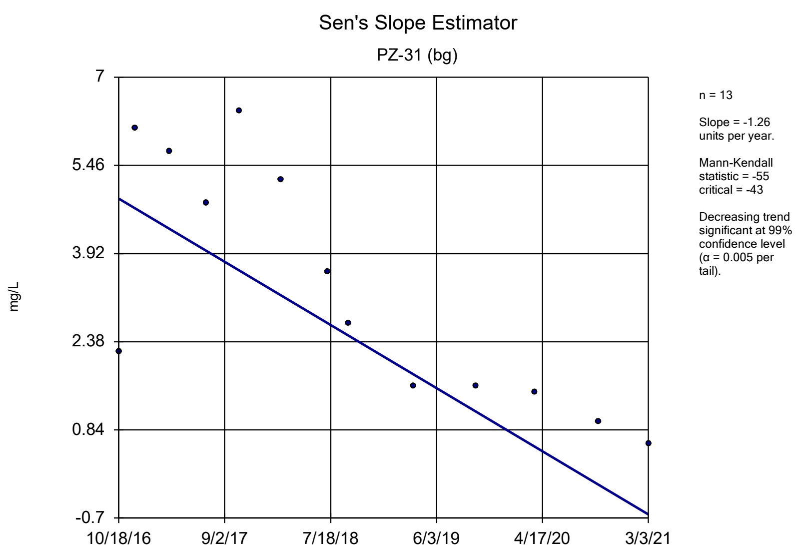
Constituent: Sulfate Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



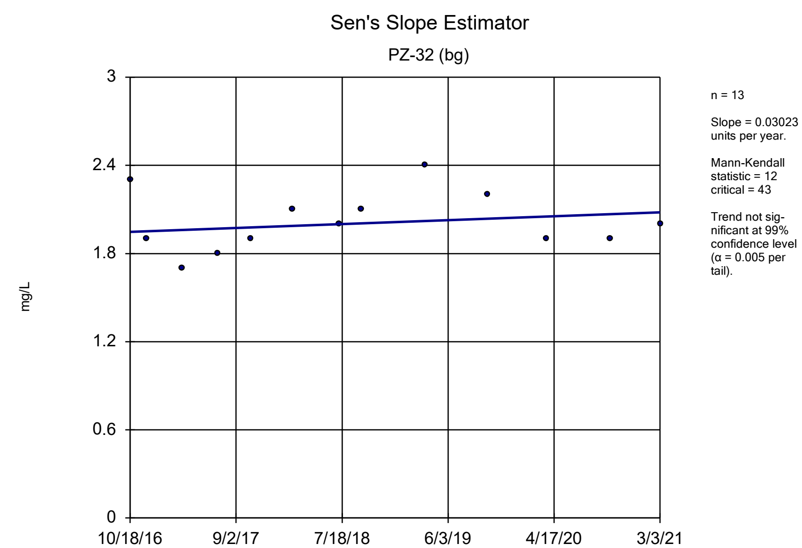
Constituent: Sulfate Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



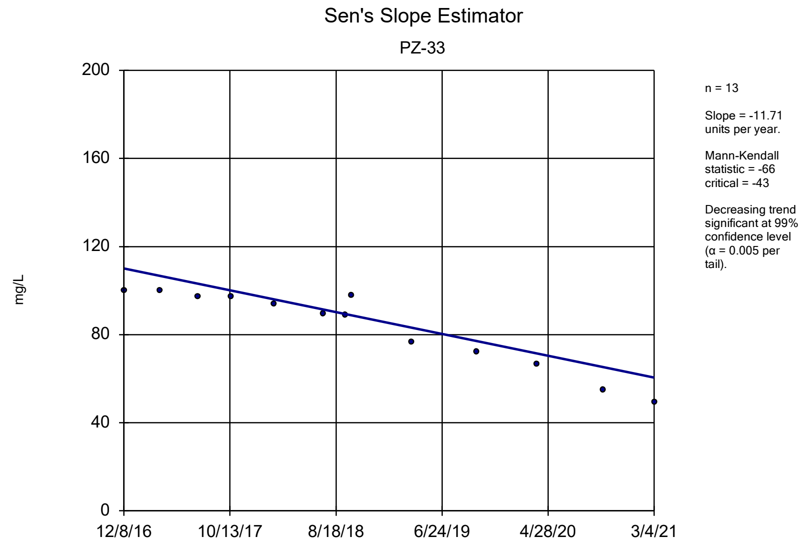
Constituent: Sulfate Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



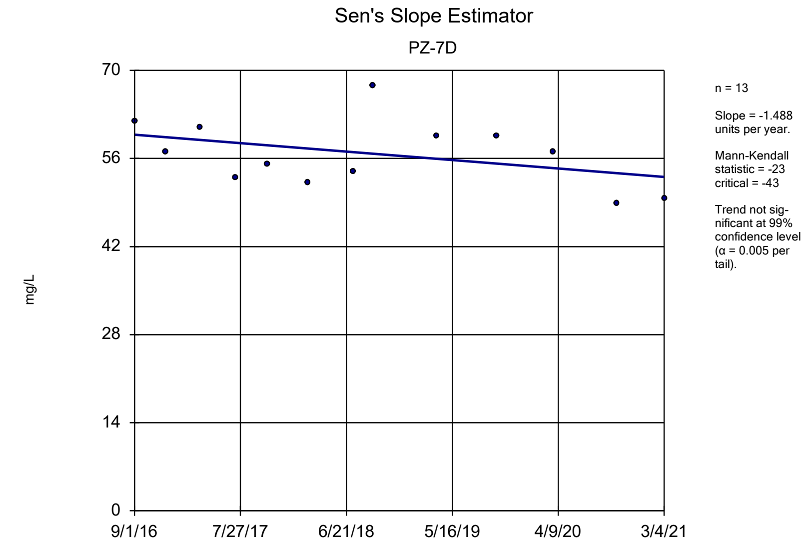
Constituent: Sulfate Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



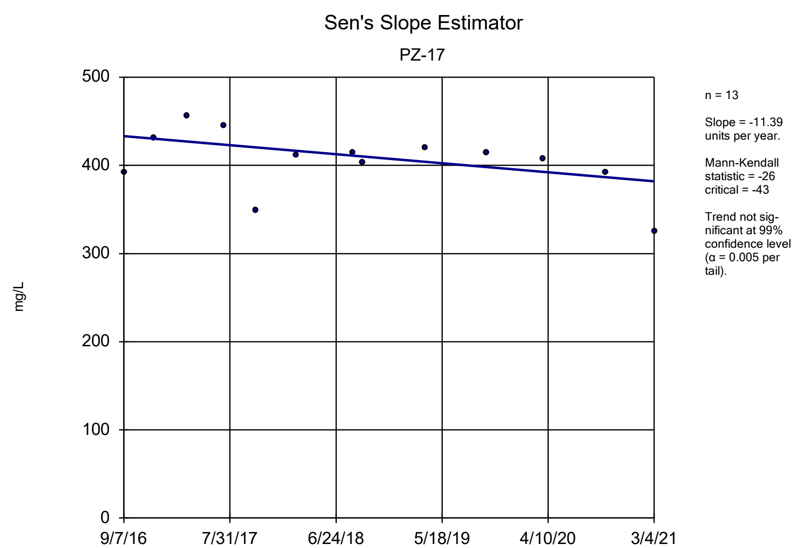
Constituent: Sulfate Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



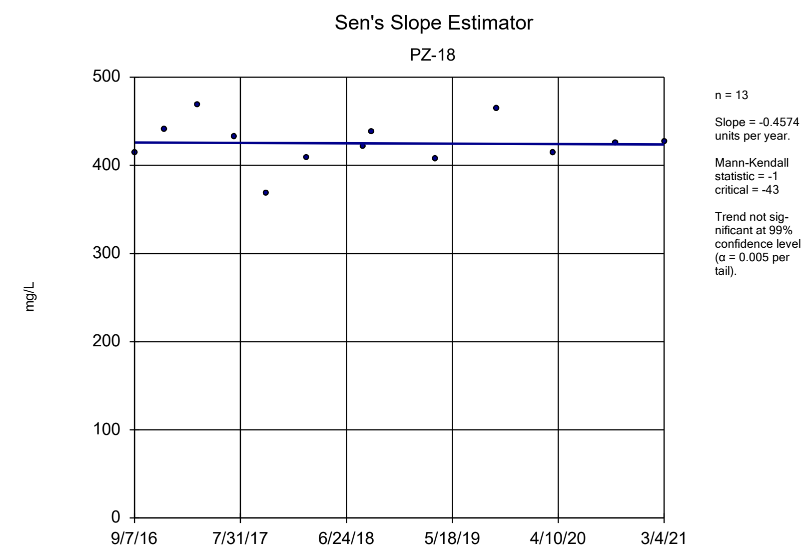
Constituent: Sulfate Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

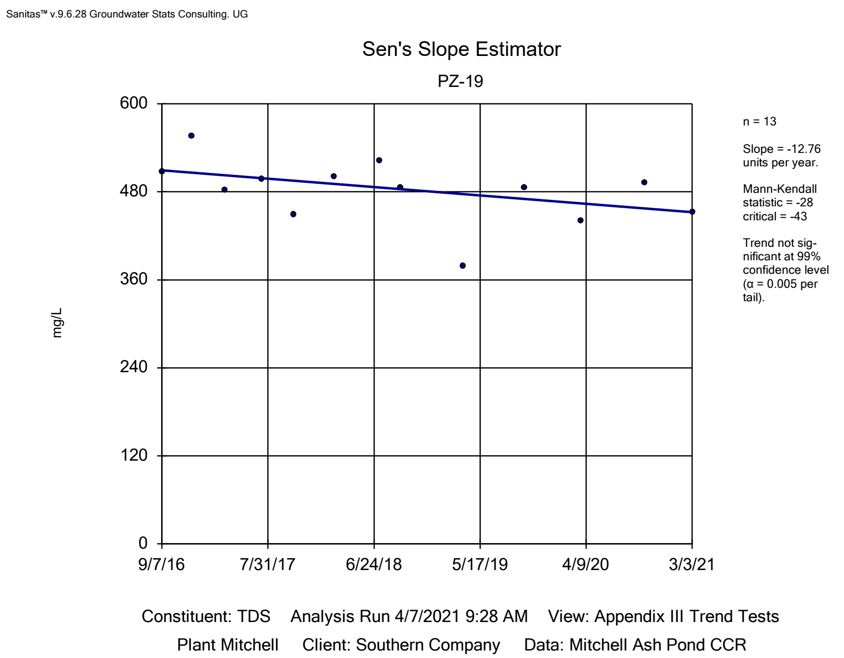


Constituent: TDS Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

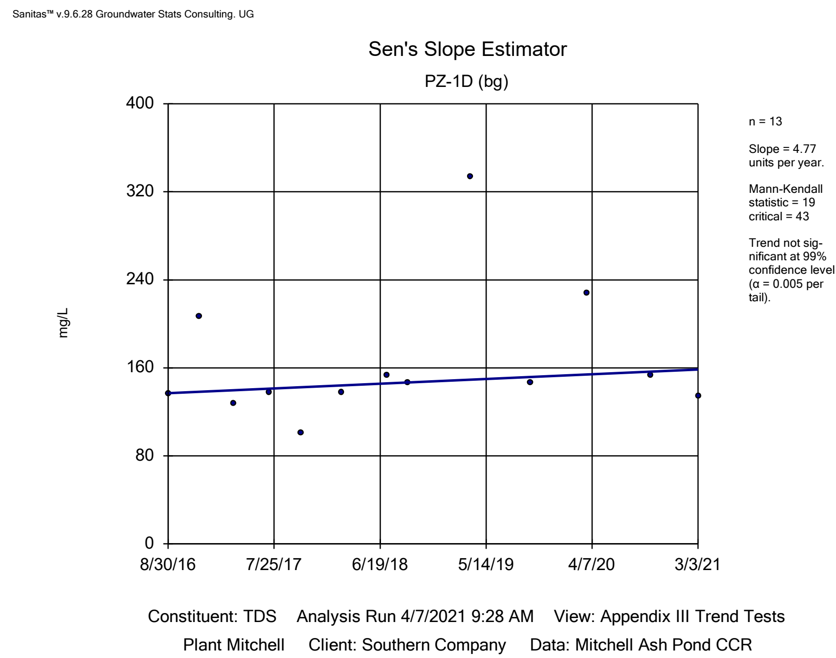
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



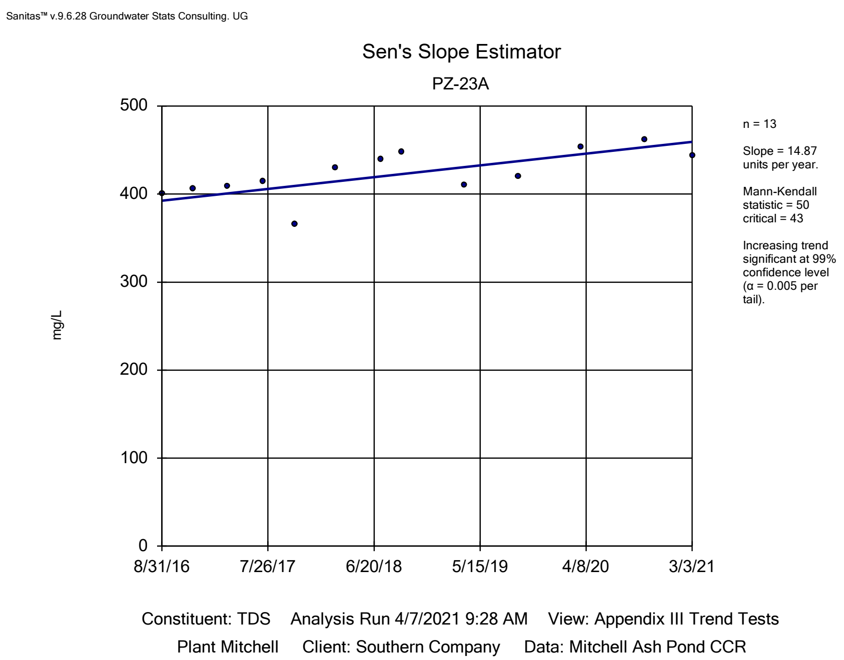
Constituent: TDS Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



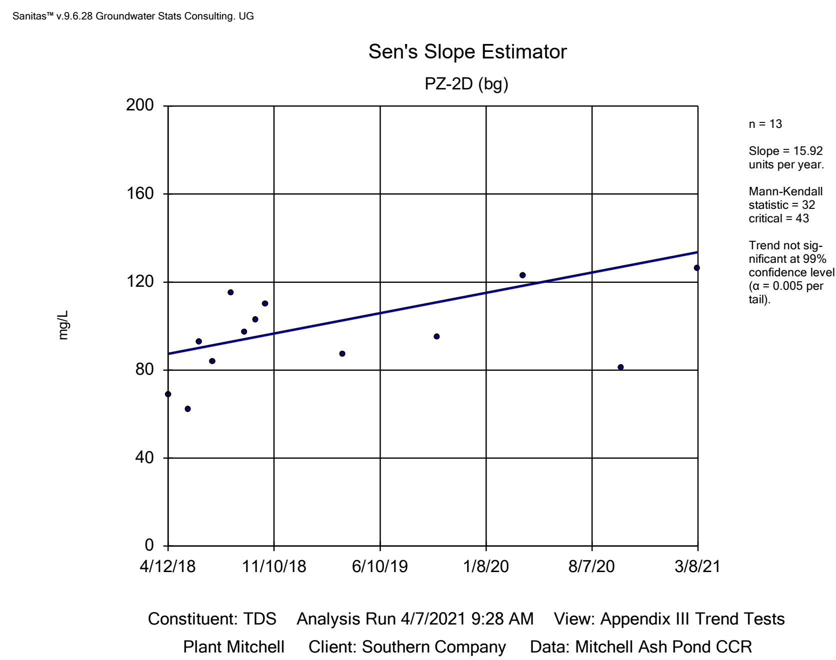
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-19
600
480
360
240
120
0
mg/L
9/7/16
7/31/17
6/24/18
5/17/19
4/9/20
3/3/21
n = 13
Slope = -12.76 units per year.
Mann-Kendall statistic = -28 critical = -43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: TDS Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



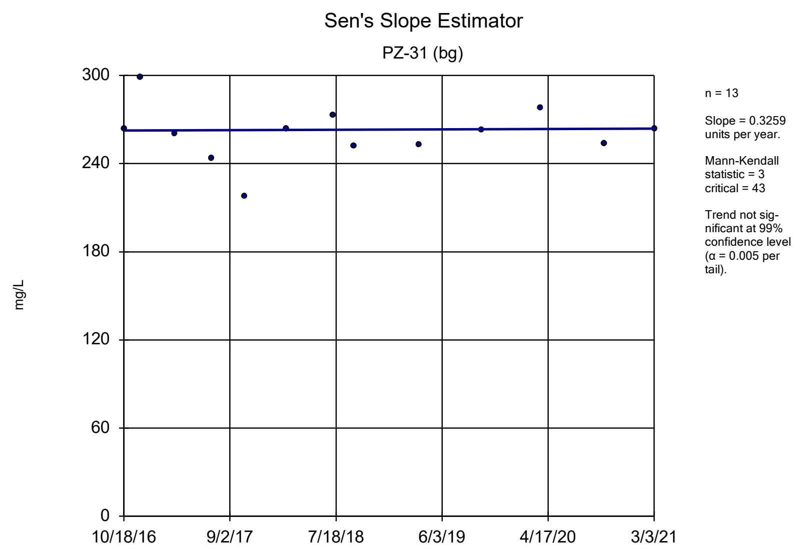
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-1D (bg)
400
320
240
160
80
0
mg/L
8/30/16
7/25/17
6/19/18
5/14/19
4/7/20
3/3/21
n = 13
Slope = 4.77 units per year.
Mann-Kendall statistic = 19 critical = 43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: TDS Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-23A
500
400
300
200
100
0
mg/L
8/31/16
7/26/17
6/20/18
5/15/19
4/8/20
3/3/21
n = 13
Slope = 14.87 units per year.
Mann-Kendall statistic = 50 critical = 43
Increasing trend significant at 99% confidence level (α = 0.005 per tail).
Constituent: TDS Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



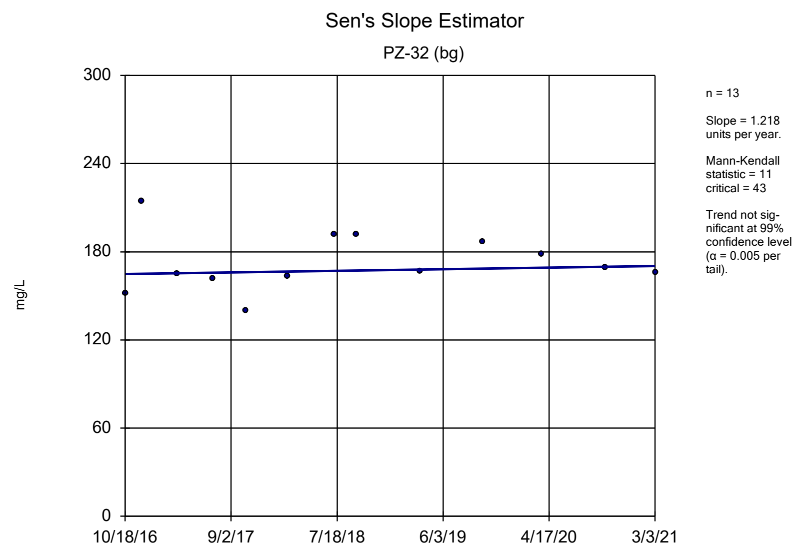
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Sen's Slope Estimator
PZ-2D (bg)
200
160
120
80
40
0
mg/L
4/12/18
11/10/18
6/10/19
1/8/20
8/7/20
3/8/21
n = 13
Slope = 15.92 units per year.
Mann-Kendall statistic = 32 critical = 43
Trend not significant at 99% confidence level (α = 0.005 per tail).
Constituent: TDS Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: TDS Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

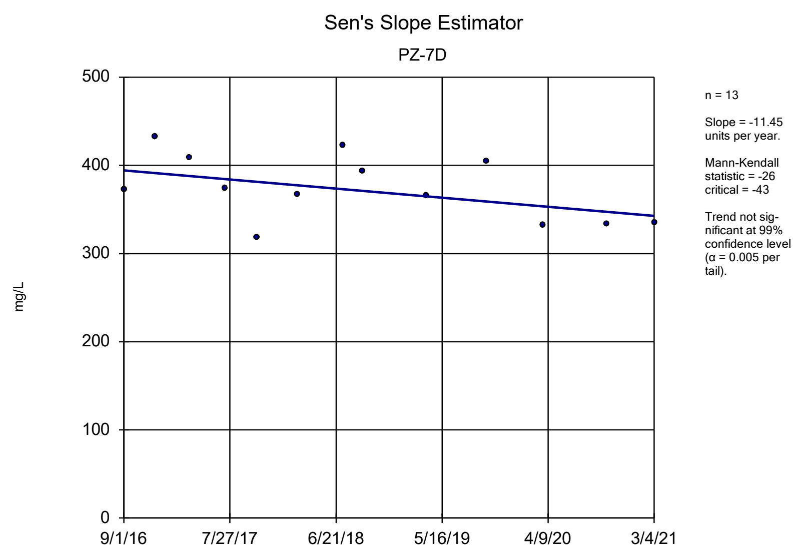
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: TDS Analysis Run 4/7/2021 9:28 AM View: Appendix III Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: TDS Analysis Run 4/7/2021 9:28 AM View: Appendix III 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 4/6/2021, 11:44 AM

Constituent	Upper Lim.	Lower Lim.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0035	n/a	n/a	52	n/a	n/a	53.85	n/a	n/a	0.06944	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	44	n/a	n/a	86.36	n/a	n/a	0.1047	NP Inter(NDs)
Barium (mg/L)	0.05465	n/a	n/a	52	-4.334	0.6953	1.923	None	ln(x)	0.05	Inter
Beryllium (mg/L)	0.003	n/a	n/a	36	n/a	n/a	94.44	n/a	n/a	0.1578	NP Inter(NDs)
Cadmium (mg/L)	0.0025	n/a	n/a	36	n/a	n/a	100	n/a	n/a	0.1578	NP Inter(NDs)
Chromium (mg/L)	0.011	n/a	n/a	52	n/a	n/a	25	n/a	n/a	0.06944	NP Inter(normality)
Cobalt (mg/L)	0.005	n/a	n/a	52	n/a	n/a	96.15	n/a	n/a	0.06944	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.754	n/a	n/a	50	0.7553	0.2755	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.29	n/a	n/a	56	n/a	n/a	46.43	n/a	n/a	0.05656	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	52	n/a	n/a	75	n/a	n/a	0.06944	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	52	n/a	n/a	80.77	n/a	n/a	0.06944	NP Inter(NDs)
Mercury (mg/L)	0.0002	n/a	n/a	44	n/a	n/a	90.91	n/a	n/a	0.1047	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	n/a	52	n/a	n/a	78.85	n/a	n/a	0.06944	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	52	n/a	n/a	88.46	n/a	n/a	0.06944	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	0.003	0.004
Cadmium, Total (mg/L)	0.005	0.0025	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	1.75	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 4/6/2021, 11:53 AM

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	13	0.0028	0.0007211	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-15	0.003	0.001	0.006	No	13	0.002663	0.0008261	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-16	0.003	0.00037	0.006	No	13	0.002798	0.0007294	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-17	0.003	0.00061	0.006	No	13	0.002469	0.001012	76.92	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-18	0.003	0.0018	0.006	No	13	0.002785	0.000532	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-19	0.003	0.00044	0.006	No	13	0.002803	0.00071	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-23A	0.003	0.0017	0.006	No	13	0.002698	0.0007838	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-33	0.003	0.00037	0.006	No	13	0.002798	0.0007294	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-7D	0.003	0.00031	0.006	No	13	0.002386	0.001167	76.92	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-14	0.03495	0.0183	2	No	13	0.0273	0.01343	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	PZ-15	0.0781	0.048	2	No	13	0.06069	0.01632	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-16	0.0689	0.035	2	No	13	0.04507	0.01382	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-17	0.08025	0.07318	2	No	13	0.07672	0.004758	0	None	No	0.01	Param.
Barium (mg/L)	PZ-18	0.0513	0.023	2	No	13	0.03069	0.01444	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-19	0.05974	0.05301	2	No	13	0.05638	0.004526	0	None	No	0.01	Param.
Barium (mg/L)	PZ-23A	0.05362	0.03716	2	No	13	0.04539	0.01107	0	None	No	0.01	Param.
Barium (mg/L)	PZ-25	0.1097	0.09963	2	No	13	0.1047	0.006781	0	None	No	0.01	Param.
Barium (mg/L)	PZ-33	0.0752	0.0553	2	No	12	0.06525	0.01269	0	None	No	0.01	Param.
Barium (mg/L)	PZ-7D	0.01047	0.007113	2	No	13	0.008792	0.002259	0	None	No	0.01	Param.
Chromium (mg/L)	PZ-14	0.005	0.00098	0.1	No	13	0.003796	0.001881	69.23	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-16	0.005	0.0008	0.1	No	13	0.003132	0.00211	53.85	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-18	0.005	0.00056	0.1	No	13	0.004658	0.001231	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-19	0.005	0.00073	0.1	No	13	0.004672	0.001184	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-23A	0.002277	0.001213	0.1	No	13	0.002592	0.001611	23.08	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	PZ-33	0.005	0.0017	0.1	No	13	0.004746	0.0009153	92.31	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-7D	0.005	0.0005	0.1	No	13	0.002762	0.001979	38.46	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-14	0.005	0.002	0.005	No	13	0.004408	0.001487	84.62	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-15	0.005	0.0004	0.005	No	13	0.003308	0.002237	61.54	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-16	0.005	0.0005	0.005	No	13	0.004654	0.001248	92.31	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-17	0.005	0.0005	0.005	No	13	0.002971	0.002288	53.85	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-18	0.005	0.0011	0.005	No	13	0.0047	0.001082	92.31	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-19	0.005	0.0012	0.005	No	13	0.004392	0.001485	84.62	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-23A	0.005	0.00049	0.005	No	13	0.003295	0.002247	61.54	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-25	0.0018	0.0008	0.005	No	13	0.001504	0.001113	7.692	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-33	0.005	0.00053	0.005	No	13	0.003295	0.002117	53.85	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-14	1.073	0.3087	5	No	13	0.7294	0.596	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-15	1.117	0.6519	5	No	13	0.8999	0.362	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-16	0.9047	0.4507	5	No	13	0.6908	0.3294	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-17	1.298	0.6704	5	No	12	0.9842	0.3999	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-18	1.351	0.4742	5	No	11	0.9126	0.5261	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-19	1.417	0.7215	5	No	13	1.069	0.4678	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-23A	1.297	0.7891	5	No	13	1.043	0.3415	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-25	1.253	0.7952	5	No	13	1.024	0.3079	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-33	1.099	0.6208	5	No	13	0.8602	0.3218	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-7D	0.6435	0.1816	5	No	13	0.4362	0.3593	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-14	0.11	0.056	4	No	14	0.08971	0.0255	57.14	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-15	0.134	0.07109	4	No	14	0.111	0.04821	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-16	0.1	0.05	4	No	14	0.08307	0.02496	57.14	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-17	0.1497	0.05733	4	No	14	0.1269	0.06633	35.71	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-18	0.1109	0.05757	4	No	14	0.1028	0.0362	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-19	0.1453	0.07083	4	No	14	0.1171	0.0809	14.29	None	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-23A	0.09698	0.04907	4	No	14	0.1009	0.06363	35.71	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-25	0.2598	0.1559	4	No	14	0.2079	0.07329	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-33	0.15	0.06	4	No	14	0.1071	0.04576	57.14	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-7D	0.15	0.045	4	No	14	0.089	0.0326	64.29	None	No	0.01	NP (NDs)

Confidence Intervals - All Results (No Significant)

Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR   Printed 4/6/2021, 11:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	PZ-15	0.001	0.00005	0.001	No	13	0.0009269	0.0002635	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-16	0.001	0.000081	0.001	No	13	0.0009293	0.0002549	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-18	0.001	0.00043	0.001	No	13	0.0008825	0.0002976	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-19	0.001	0.000042	0.001	No	13	0.0009263	0.0002657	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-23A	0.001	0.000058	0.001	No	13	0.0007888	0.0004019	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-33	0.001	0.00009	0.001	No	13	0.0008567	0.0003499	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-7D	0.001	0.000041	0.001	No	13	0.0009262	0.000266	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14	0.03	0.003	0.03	No	13	0.02792	0.007488	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-15	0.03	0.0012	0.03	No	13	0.01233	0.01454	38.46	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-17	0.003	0.002	0.03	No	13	0.006662	0.01036	15.38	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-18	0.003	0.0024	0.03	No	13	0.006885	0.01026	15.38	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-19	0.01473	0.009886	0.03	No	13	0.01231	0.003257	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-23A	0.03	0.001	0.03	No	13	0.02109	0.01391	69.23	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-25	0.006713	0.005314	0.03	No	13	0.005969	0.001051	0	None	x^2	0.01	Param.
Lithium (mg/L)	PZ-7D	0.0038	0.0023	0.03	No	13	0.004931	0.00755	7.692	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-14	0.0002	0.00015	0.002	No	11	0.0001836	0.00004056	81.82	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-15	0.0002	0.0002	0.002	No	11	0.0001906	0.00003106	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-16	0.0002	0.0002	0.002	No	11	0.000188	0.0000398	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-17	0.0002	0.0002	0.002	No	11	0.0001896	0.00003437	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-18	0.0002	0.0002	0.002	No	11	0.000187	0.00004312	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-19	0.0002	0.0001	0.002	No	11	0.0001768	0.00005302	81.82	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-23A	0.0002	0.00017	0.002	No	11	0.0001873	0.00003349	81.82	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-25	0.0002	0.0002	0.002	No	11	0.0001866	0.00004432	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-33	0.0002	0.000043	0.002	No	11	0.0001631	0.00006561	72.73	None	No	0.006	NP (NDs)
Mercury (mg/L)	PZ-7D	0.0002	0.00006	0.002	No	11	0.0001739	0.00005807	81.82	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	PZ-14	0.01	0.0005	0.01	No	13	0.009269	0.002635	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-15	0.01	0.0004	0.01	No	13	0.009262	0.002663	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-16	0.01	0.0004	0.01	No	13	0.009262	0.002663	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-17	0.01	0.0004	0.01	No	13	0.009262	0.002663	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-19	0.0027	0.002	0.01	No	13	0.002823	0.002167	7.692	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-23A	0.01	0.0011	0.01	No	13	0.008592	0.003438	84.62	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-25	0.01	0.001	0.01	No	13	0.009308	0.002496	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-14	0.005	0.0015	0.05	No	13	0.004438	0.001372	84.62	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-15	0.005	0.0018	0.05	No	13	0.004754	0.0008875	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-19	0.005	0.0016	0.05	No	13	0.003954	0.001319	53.85	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-23A	0.005	0.0018	0.05	No	13	0.003769	0.001438	53.85	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-7D	0.005	0.0018	0.05	No	13	0.004254	0.001418	76.92	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-14	0.001	0.00006	0.002	No	13	0.0009277	0.0002607	92.31	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-15	0.001	0.00016	0.002	No	13	0.0006931	0.0004052	61.54	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-16	0.001	0.00017	0.002	No	13	0.0006156	0.0004337	53.85	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-17	0.001	0.0002	0.002	No	13	0.0007092	0.0003862	61.54	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-18	0.001	0.00005	0.002	No	13	0.0007816	0.000415	76.92	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-19	0.0007588	0.0004551	0.002	No	13	0.0006069	0.0002042	7.692	None	No	0.01	Param.
Thallium (mg/L)	PZ-23A	0.001	0.00015	0.002	No	13	0.00044	0.0003916	30.77	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-25	0.001	0.00027	0.002	No	13	0.0007392	0.0003452	61.54	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-33	0.001	0.0001	0.002	No	13	0.0006638	0.0004431	61.54	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-7D	0.001	0.000085	0.002	No	13	0.0006587	0.0004503	61.54	None	No	0.01	NP (NDs)

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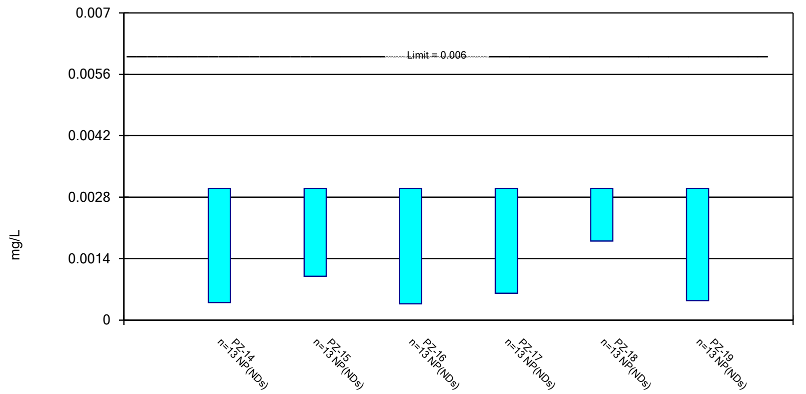
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

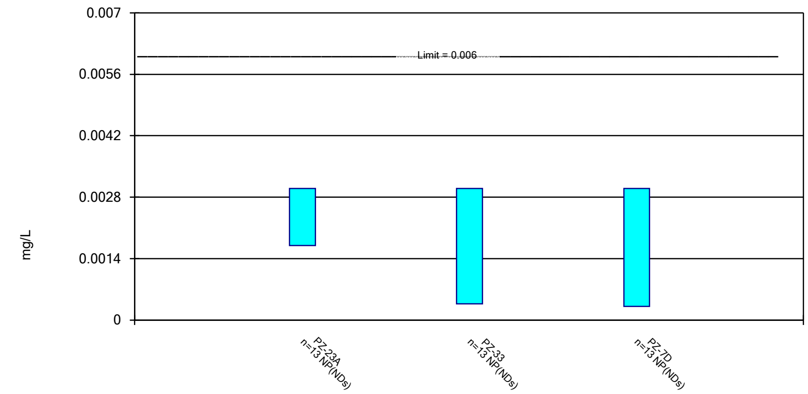


Constituent: Antimony   Analysis Run 4/6/2021 11:52 AM   View: Appendix IV - Confidence Intervals
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

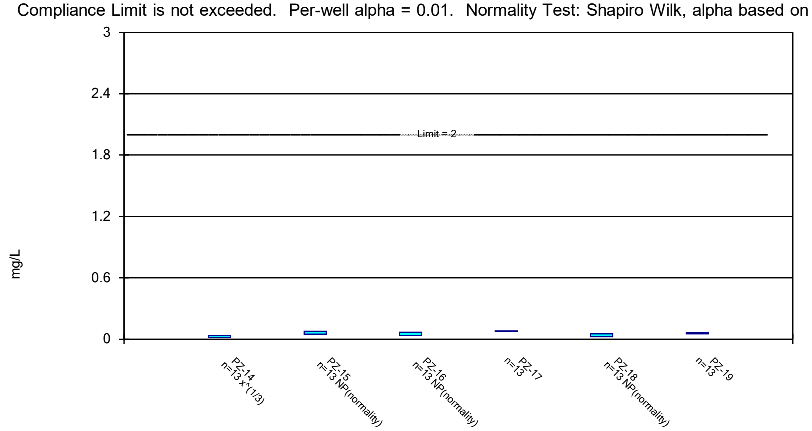


Constituent: Antimony   Analysis Run 4/6/2021 11:52 AM   View: Appendix IV - Confidence Intervals
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 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.

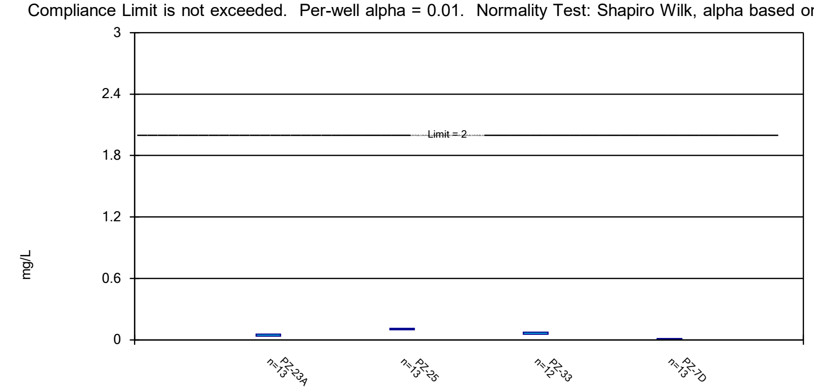


Constituent: Barium   Analysis Run 4/6/2021 11:52 AM   View: Appendix IV - Confidence Intervals
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR

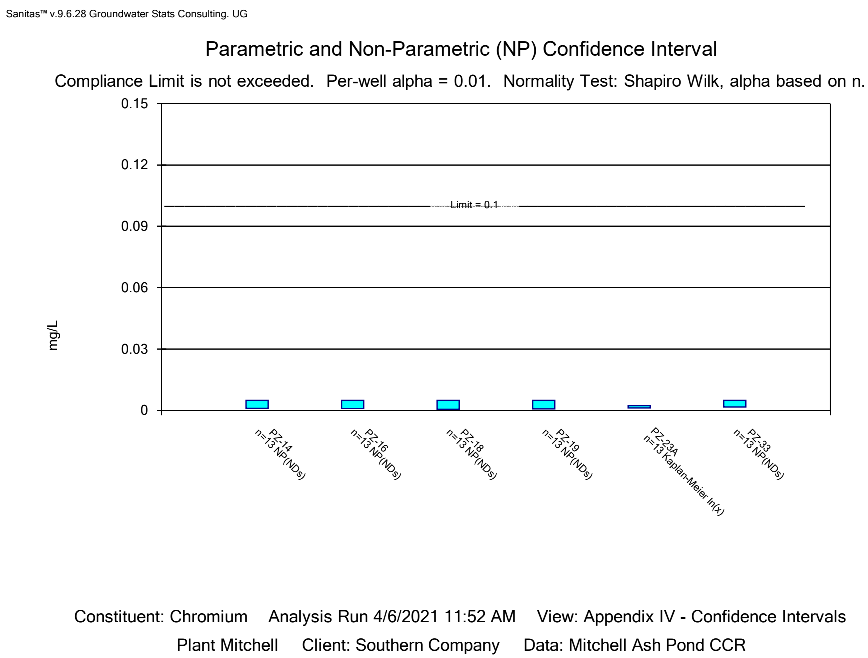
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Parametric Confidence Interval

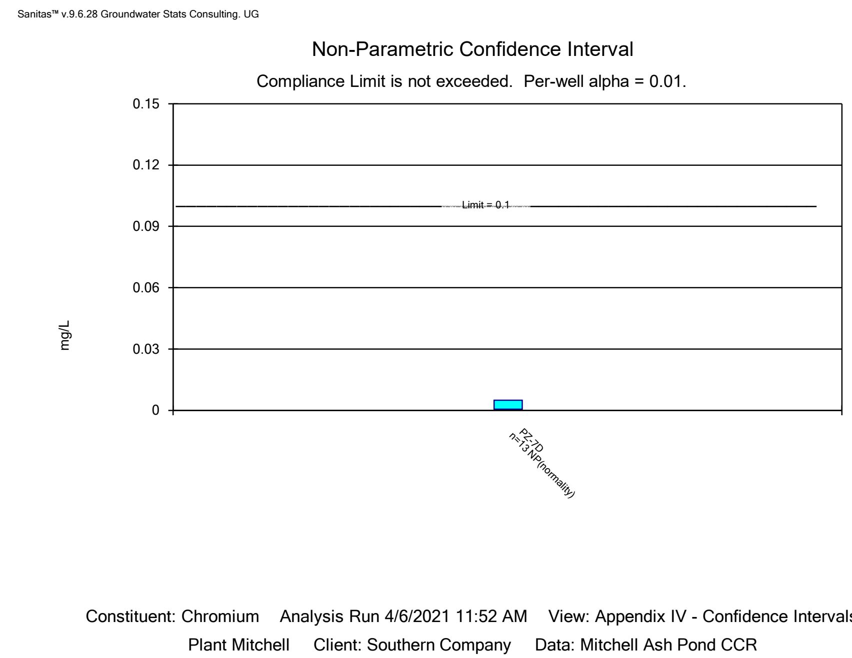
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



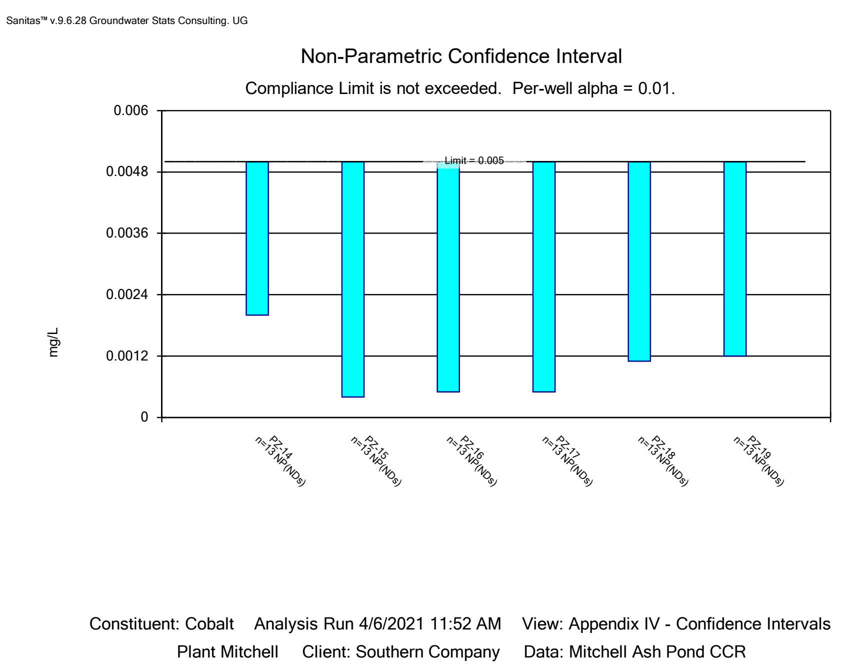
Constituent: Barium   Analysis Run 4/6/2021 11:52 AM   View: Appendix IV - Confidence Intervals
Plant Mitchell   Client: Southern Company   Data: Mitchell Ash Pond CCR



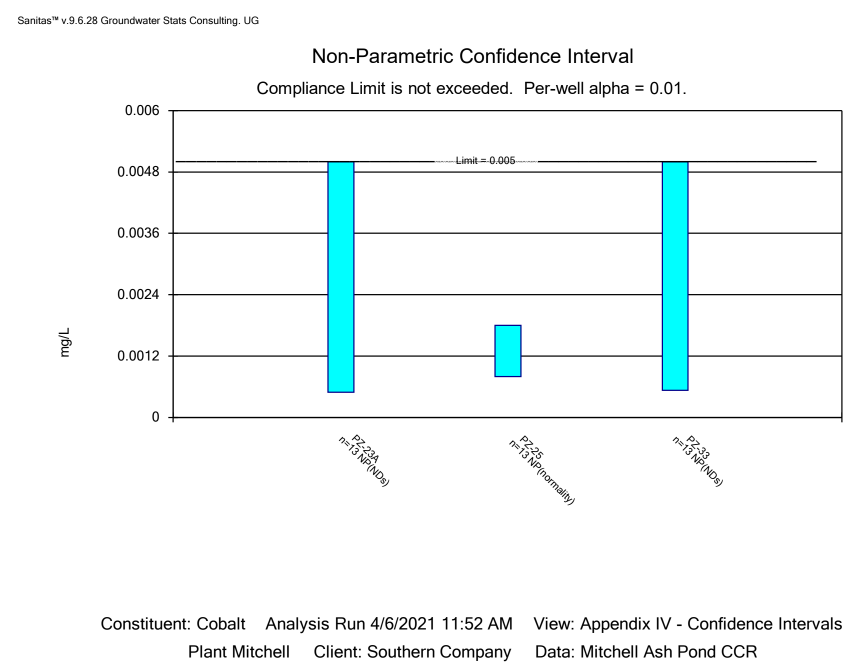
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Parametric and Non-Parametric (NP) Confidence Interval
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.
0.15
0.12
0.09
0.06
0.03
0
mg/L
Limit = 0.1
PZ-14 n=13 NP(NDs)
PZ-16 n=13 NP(NDs)
PZ-18 n=13 NP(NDs)
PZ-19 n=13 NP(NDs)
PZ-23A n=13 Kaplan-Meier ln(x)
PZ-33 n=13 NP(NDs)
Constituent: Chromium Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Non-Parametric Confidence Interval
Compliance Limit is not exceeded. Per-well alpha = 0.01.
0.15
0.12
0.09
0.06
0.03
0
mg/L
Limit = 0.1
PZ-7D n=13 NP(normality)
Constituent: Chromium Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Non-Parametric Confidence Interval
Compliance Limit is not exceeded. Per-well alpha = 0.01.
0.006
0.0048
0.0036
0.0024
0.0012
0
mg/L
Limit = 0.005
PZ-14 n=13 NP(NDs)
PZ-15 n=13 NP(NDs)
PZ-16 n=13 NP(NDs)
PZ-17 n=13 NP(NDs)
PZ-18 n=13 NP(NDs)
PZ-19 n=13 NP(NDs)
Constituent: Cobalt Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

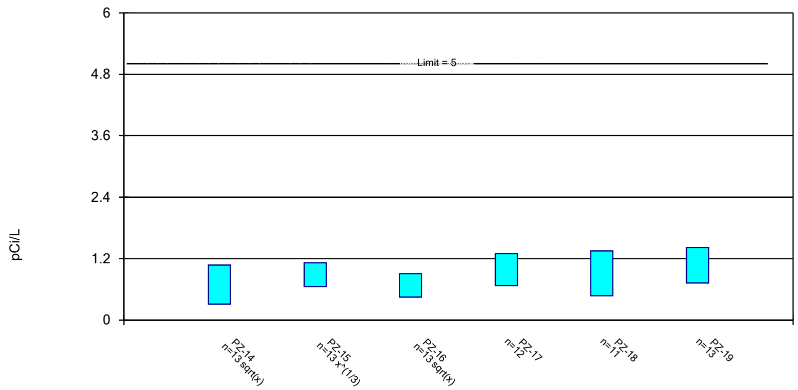


Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Non-Parametric Confidence Interval
Compliance Limit is not exceeded. Per-well alpha = 0.01.
0.006
0.0048
0.0036
0.0024
0.0012
0
mg/L
Limit = 0.005
PZ-23A n=13 NP(NDs)
PZ-25 n=13 NP(normality)
PZ-33 n=13 NP(NDs)
Constituent: Cobalt Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 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.



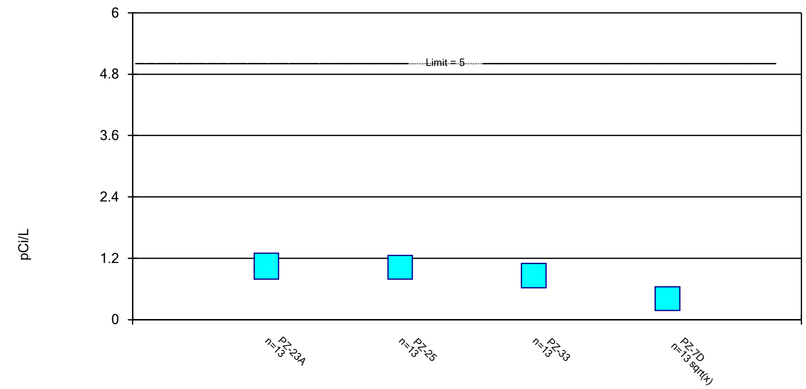
Constituent: Combined Radium 226 + 228 Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confiden

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 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.



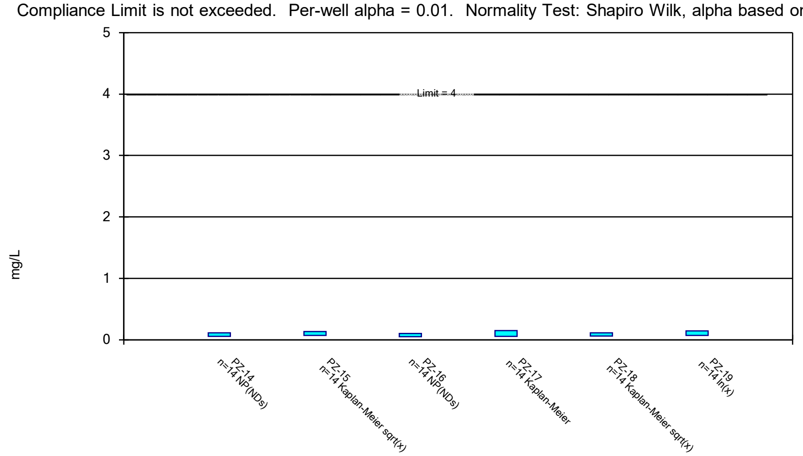
Constituent: Combined Radium 226 + 228 Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confiden

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 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.



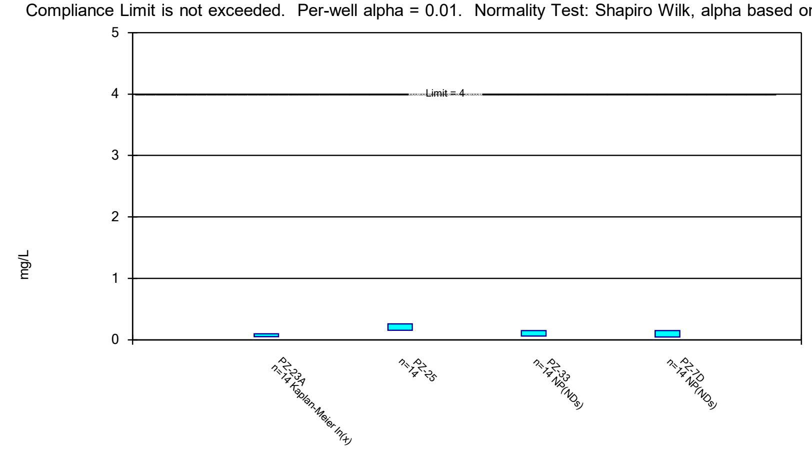
Constituent: Fluoride Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 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.



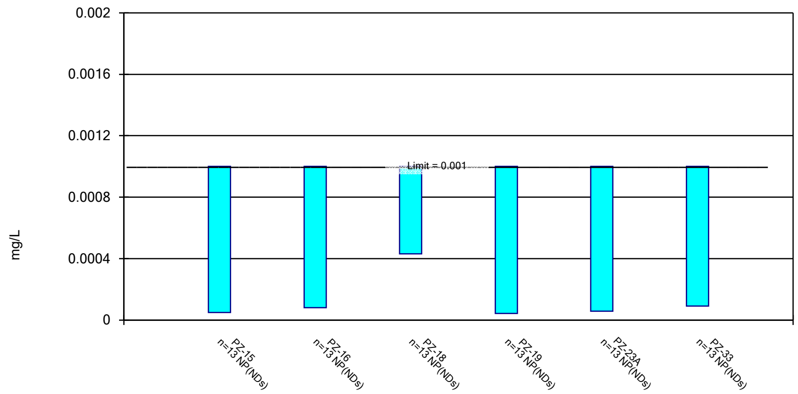
Constituent: Fluoride Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

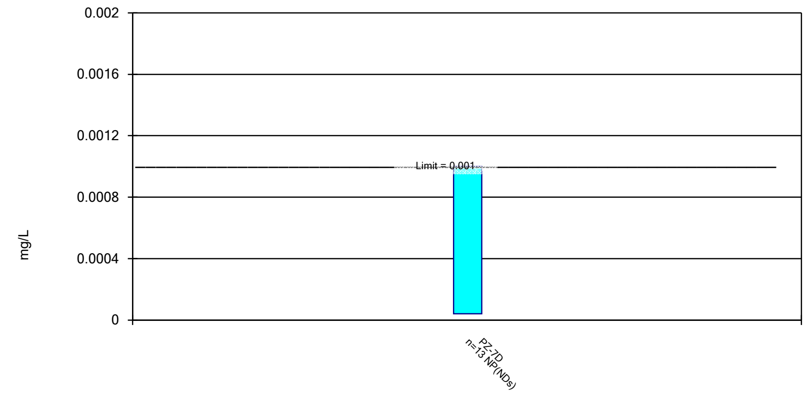


Constituent: Lead Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

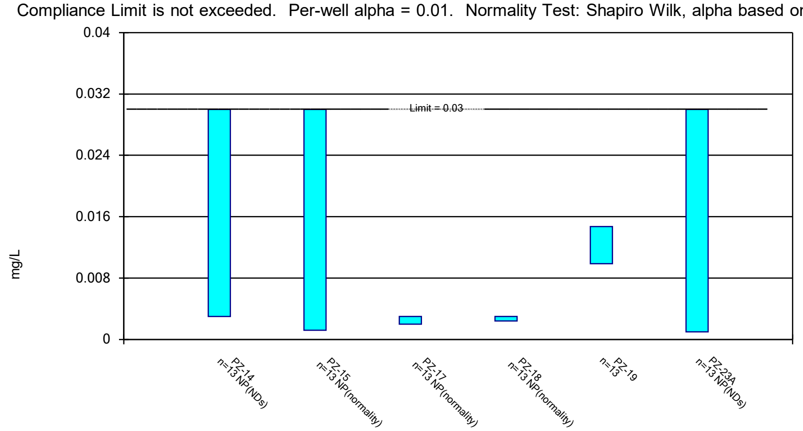


Constituent: Lead Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 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.

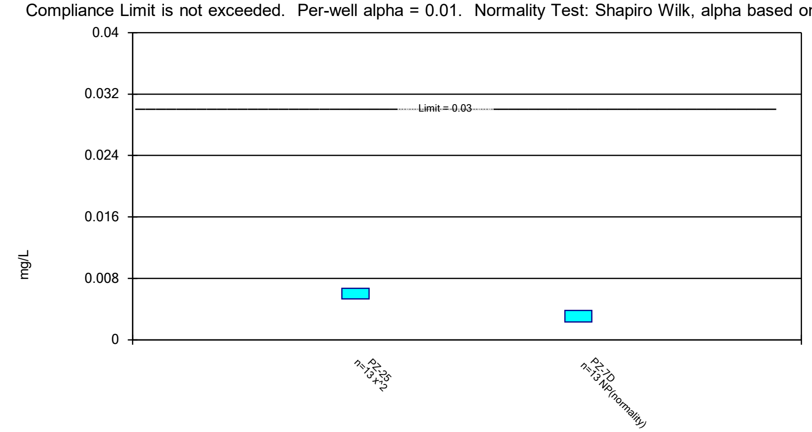


Constituent: Lithium Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

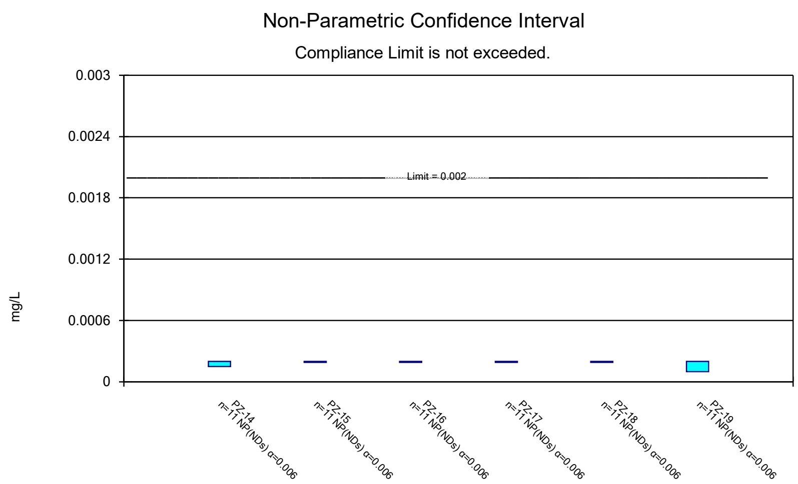
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



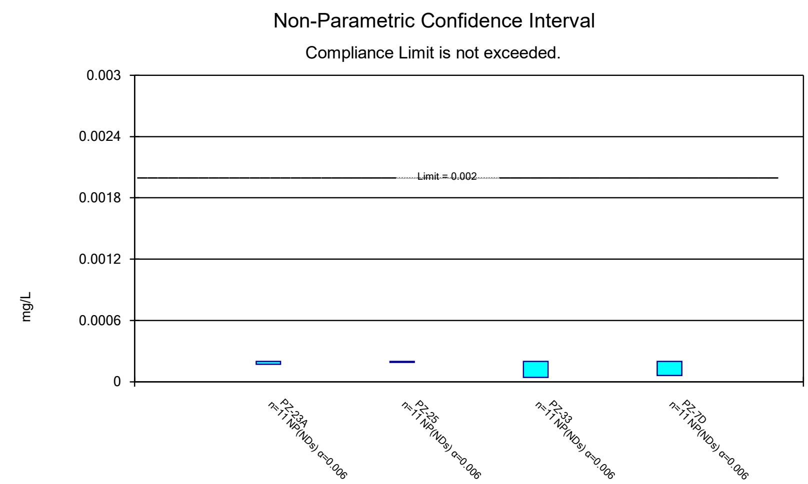
Constituent: Lithium Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



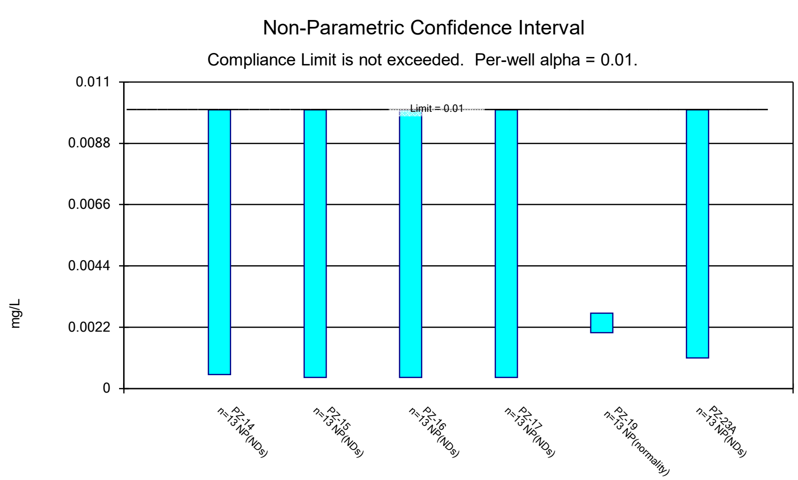
Constituent: Mercury Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



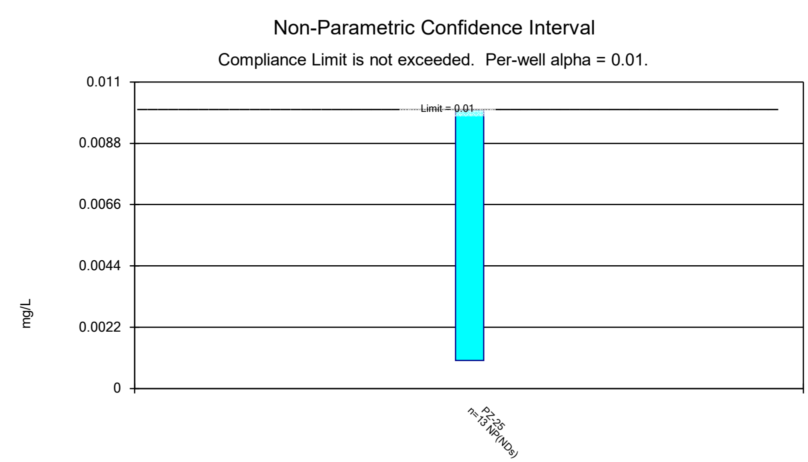
Constituent: Mercury Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Molybdenum Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

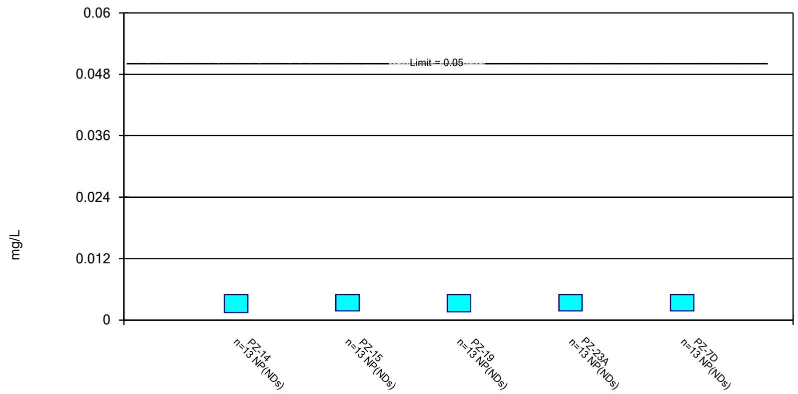


Constituent: Molybdenum Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

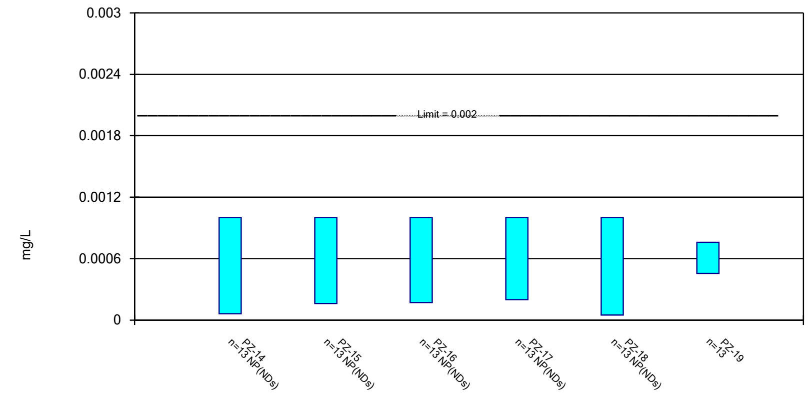


Constituent: Selenium Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 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.

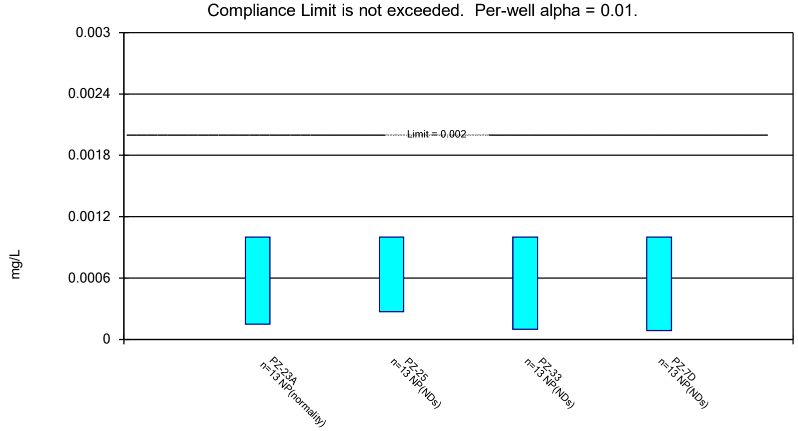


Constituent: Thallium Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 4/6/2021 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR