



# **2020 Semi-Annual Groundwater Monitoring and Corrective Action Report**

Georgia Power Company – Plant Mitchell  
Ash Ponds A, 1, and 2  
Project No.: 6122160170

Prepared for:



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## CERTIFICATION STATEMENT

This 2020 Semi-Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company Plant Mitchell - Ash Ponds A, 1, and 2 has been prepared in compliance with Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 under the supervision of a licensed professional engineer and a licensed professional geologist with Wood Environment & Infrastructure Solutions, Inc.



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## SUMMARY

This summary of the 2020 Semi-Annual Groundwater Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program through the second half of 2020 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<sup>1</sup> of the U.S. Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

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 (Figure 1). 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 EPD in November 2018 and is currently under review.



Figure 1. Plant Mitchell Ash Ponds A, 1, & 2

The groundwater monitoring program for the ash ponds is managed in accordance with the Georgia Environmental Protection Division (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-six 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 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

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



monitoring event was in October 2019. Semi-annual assessment monitoring events were conducted in March 2020 and October 2020 and remains in assessment monitoring.

During the latter half 2020 reporting period, two groundwater sampling events were conducted in August and October. The August event was an assessment constituent screening event and samples were analyzed for only the full suite of Appendix IV<sup>2</sup> parameters including radium. The October event was a routine semi-annual assessment monitoring and samples were analyzed for the full suite of Appendix III<sup>3</sup> parameters and those Appendix IV<sup>4</sup> parameters detected in August. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for October 2020 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III<sup>2</sup> 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), established according to Georgia EPD Rules 391-3-4-.10(6)(a). Therefore, no statistically significant levels (SSLs) were identified for the October 2020 sampling event.

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

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from August through December 2020, 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.

<sup>2</sup> Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

<sup>3</sup> Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

<sup>4</sup> Antimony, barium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228



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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 2020 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document groundwater monitoring activities conducted at Georgia Power Company's (GPC) 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.

Groundwater monitoring and reporting for Plant Mitchell are performed in accordance with the monitoring requirements of § 257.90 through § 257.95 and the Georgia EPD Rule 391-3-4-.10(6)(a)-(c). This semi-annual report documents the activities completed during the second half of 2020 in accordance with Georgia EPD Rule 391-3-4-.10(6)(c). Two monitoring events were conducted during this monitoring period: (1) an assessment monitoring constituent screening event was conducted in August 2020 as a result of statistical exceedances of Appendix III constituents during the monitoring event in March 2020, and (2) the subsequent semi-annual assessment monitoring event was conducted in October 2020.

### 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 Plant Mitchell Site is generally composed of the former coal-fired electric generating facility to the north and Ash Ponds A, 1, and 2 to the south. 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 northern boundary of the Site is a residential property with a mowed lot. 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 Georgia EPD in November 2018 and is currently under review. 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 were conducted in March 2020 and October 2020.

## **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. 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  $10^{-5}$  ft/day. These values are generally consistent with the published range of literature values for overburden materials in the Dougherty Plain area. Hayes, et al. (1983) estimated horizontal hydraulic conductivity ranging from 0.0004 ft/day to 30 ft/day with a median value of 0.002 ft/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 ft/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. In-situ hydraulic conductivity (slug) tests in the bedrock at the Site ranged from  $3.83 \times 10^{-4}$  to  $2.05 \times 10^{-3}$  cm/sec or 1.08 to 5.81 feet/day with an average of  $1.07 \times 10^{-3}$  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** and **Figure 4: Potentiometric Surface – Upper Bedrock – October 2020**.



### 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 and § 391-3-4-.10(6)(a), 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 and Groundwater Elevations**). Twenty-six piezometers are used for water level measurements only (**Table 2: Summary of Piezometer Construction and Groundwater Elevations**).



## 2.0 GROUNDWATER MONITORING ACTIVITIES

As required by § 391-3-4.10 (6) and 257.90(e), the following describes monitoring-related activities performed during the events during the second half of 2020. The groundwater sampling was performed August 2020 and October 2020 for assessment monitoring in accordance with § 257.93 and Georgia EPD Rule 391-3-4-.10(6). Samples were collected from each of the 14 wells in the monitoring system shown on **Figure 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 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 boring logs and well construction diagrams of the monitoring wells and piezometers were updated with the new TOC elevations and submitted to Georgia 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 Abandonment**. The piezometer was abandoned to accommodate the on-going construction activities to remove CCR material and close the Ash Pond 2.

### 2.2 Detection Monitoring Program

In accordance with § 257.94(b) and Georgia EPD Rule 391-3-4.10 (6), the detection groundwater monitoring program was implemented by collecting 8 background groundwater samples beginning in August 2016. In addition, a 9<sup>th</sup> round of groundwater samples was collected from the 14 CCR monitoring wells as the initial detection monitoring event. Groundwater samples were collected from each monitoring well and analyzed for Appendix III constituents according to § 257.94(a) and Georgia EPD Rule 391-3-4-.10(6). The background study and the initial detection monitoring event were documented in the *2019 Annual Groundwater Monitoring & Corrective Action Report*, dated August 5, 2019.

### 2.3 Assessment Monitoring

Statistically significant increases (SSI) of Appendix III constituents were identified in the initial detection monitoring event (March 2019). Pursuant to § 257.94(e)(1) and Georgia EPD Rule 391-3-4-.10(6), Georgia Power implemented assessment monitoring in accordance with § 257.95 and



Georgia EPD Rule 391-3-4-.10(6). An assessment monitoring constituent screening event was conducted from August 25 to 27, 2020. Pursuant to § 257.95(b) and Georgia EPD Rule 391-3-4-.10(6), the CCR monitoring wells were sampled for the full suite of Appendix IV constituents during the August 2020 assessment monitoring screening event. Following receipt of the Appendix IV screening results, a semi-annual assessment monitoring event was conducted October 5 to 7, 2020. Pursuant to § 257.95(d)(1) and Georgia EPD Rule 391-3-4-.10(6), 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 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 2020 and October 2020 monitoring events are summarized in **Tables 1 and 2**. Groundwater elevation data from the two monitoring events were used to develop potentiometric surface elevation contour maps (**Figure 3: Potentiometric Surface – Upper Bedrock – August 2020 and Figure 4: Potentiometric Surface – Upper Bedrock – October 2020**). The elevations of the top of well casings were re-surveyed in June 2020. The August and October 2020 groundwater elevations were calculated using the top of casing elevations from the June 2020 resurvey. Groundwater flow in the carbonate upper bedrock (**Figures 3 and 4**) is to the west-southwest. The June 2020 re-surveyed elevations did not affect the direction of groundwater flow. The groundwater flow pattern observed during the August 2020 and October 2020 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  $\left(\frac{\text{feet}}{\text{day}}\right)$

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

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

$n_e =$  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." While the presence of



interpreted karst features is documented on the surface at the Plant Mitchell Site, little evidence exists for the presence of well interconnected karst features within the upper bedrock aquifer. Groundwater flow in the shallow Ocala Limestone at Plant Mitchell likely is diffuse based on the above evidence. 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% (Hayes, et al., 1983). **Table 3: Groundwater Flow Velocity Calculations** summarize the groundwater flow velocities. Results for groundwater flow velocities ranged from 0.01 to 0.03 feet/day (3.7 to 11.0 feet/year).

### 3.3 Groundwater Sampling

Groundwater samples were collected for the August 2020 and the October 2020 monitoring events in accordance with § 257.95(b) and (d) and Georgia EPD Rule 391-3-4-.10(6). 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 (mL/min). A SmarTroll (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, dissolved oxygen, temperature, and 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  $\pm$  0.1 Standard Units (S.U.).
- Specific conductance  $\pm$  5%;
- 10% for DO > 0.5 mg/l. No criterion applies if DO < 0.5 mg/L.
- Turbidity measurements less than 10 NTU
- Temperature – Record only, not used for stabilization criteria
- ORP – Record only, not used for stabilization criteria

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.



### 3.4 Laboratory Analyses

Groundwater samples collected in August 2020 for the assessment monitoring constituent screening event were analyzed for the full suite of Appendix IV constituents only.

Groundwater samples collected in October 2020 semi-annual monitoring event were analyzed for the full suite of Appendix III constituents and the Appendix IV constituents detected in the August 2020 assessment constituent screening event. 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 event in accordance with § 257.95(d)(1) and Georgia EPD Rule 391-3-4-.10(6). 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 4: Analytical Data Summary Appendix III - October 2020**, summarizes the analytical data for the Appendix III constituents for the semi-annual monitoring event. The complete laboratory and field data sheets are included in **Appendix B**.

**Table 5: Analytical Data Summary Appendix IV – August and October 2020** summarizes the analytical data for the Appendix IV assessment constituent screening event and the detected Appendix IV constituents for the October 2020 semi-annual monitoring event. 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. Those few concentrations higher than the historical range were identified as statistical exceedances. The data quality evaluations are included in **Appendix B**. The data quality evaluation showed the data is valid and appropriate to use for monitoring the Site's groundwater quality.



The analytical results provided in **Tables 4** and **5** provide concentrations from the August 2020 and October 2020 sampling events as reported by the laboratory. When values are followed by a “J” flag, this indicates that the value is an estimated analyte concentration detected between the method detection limit (MDL) and the laboratory reporting limit (RL). 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 (MDC). The relative percent difference for the parent and duplicate sample data for anion and metals data was less than 20% indicating good sampling precision. The relative percent difference for total radium in one October 2020 sample set was at 20%.





## 4.0 STATISTICAL ANALYSIS

The Site is currently in assessment monitoring. Statistical analysis of Appendix III groundwater monitoring data was performed on samples collected from the groundwater monitoring network pursuant to § 257.93(f) and Georgia Rule 391-3-4.-10(6) and 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) and Georgia Rule 391-3-4.-10(6) 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) and Georgia Rule 391-3-4.-10(6), 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 semi-annual assessment monitoring event to evaluate if concentrations statistically exceeded the established GWPS. The following subsections provide an overview of the statistical methods used to evaluate Appendix III and IV parameters 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. The Interwell 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. The following table provides a summary of the statistical methodology used at Ash Ponds A, 1, and 2 for the semi-annual monitoring event conducted in October 2020 and will be used for routine monitoring in the future. Specific methodology information is described in the following paragraphs.



**Table 6: Statistical Method Summary**

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	<p>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.</p> <p>Nonparametric when data sets contain greater than 50% non-detects or when data are not normally or transformed-normally distributed.</p>
	Management of Non-Detects	<p>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.</p> <p>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.</p>
	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	<ul style="list-style-type: none"> <li>▪ Initial statistical exceedance warrants optional independent resampling within 90 days.</li> <li>▪ If resample passes, well/parameter is not a confirmed statistically significant increase (SSI).</li> <li>▪ If resample exceeds, well/parameter has a confirmed SSI.</li> <li>▪ If no resample is collected, the original result is deemed verified.</li> </ul>



#### 4.1.1 Appendix III Statistical Method

When using the interwell method, upgradient well data are pooled to establish a background statistical limit for each constituent. Appendix III data from the October 2020 monitoring event was compared to the statistical limit to determine whether downgradient well concentrations exceed background statistical limits. The interwell statistical method uses an optional 1-of-2 verification resample plan. When an initial statistically significant increase (SSI) or questionable result occurs, a second sample may be collected to verify the initial result or determine if the result was an outlier. Interwell prediction limits were used for the following locations and constituents:

- Ash Ponds A, 1, and 2: Interwell statistical methods were used for boron, calcium, chloride, fluoride, sulfate, Total Dissolved Solids (TDS), and pH.

Data from groundwater samples from downgradient wells collected in the October 2020 assessment monitoring event was compared to the statistical limits to evaluate whether concentrations exceed background statistical limits.

If data from a sampling event initially exceeds the prediction limit (PL), an optional resampling strategy can be used to verify the result. In 1-of-2 resampling, one independent resample is collected and evaluated within 90 days to determine whether the initial exceedance is verified. If the resample exceeds the PL, the initial exceedance is verified, and an SSI is identified. When a resample result does not verify the initial result, and does not exceed the PL, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance. If the initial finding is not verified by a resampling result, the resampled value will replace the initial finding. When the resample confirms the initial finding, the exceedance will be reported.

#### 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 and radium. 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 40 CFR § 257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a).



As described in 40 CFR § 257.95(h) (1-3), the 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, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR § 257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the 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 Georgia EPD Rule requirements, GWPS were established for statistical comparison of Appendix IV constituents for the October 2020 sample event. **Table 7: Summary of Groundwater Protection Standards** summarizes the background limits established for each Appendix IV constituent for each event and the GWPS established under Georgia 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 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.

#### 4.2 Statistical Analyses Results – Appendix III

Analytical data for Appendix III constituents from the October 2020 semi-annual monitoring event were analyzed in accordance with the statistical analysis plan. The statistical analysis and comparison to prediction limits are included as **Appendix C: Statistical Analyses. Table 8: Statistical Analysis Summary October 2020** summarizes the SSIs identified for the Appendix III parameters during the October 2020 event.



**Table 8**  
**Statistical Analysis Summary**  
**October 2020**

<b><u>Appendix III</u></b> <b><u>Parameters</u></b>	<b><u>Wells with Concentrations Above Prediction</u></b> <b><u>Limits</u></b>
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
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

#### 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 Georgia EPD Rules 391-3-4-.10(6)(a). Therefore, no SSLs were identified for the October 2020 sampling event.



## 5.0 MONITORING PROGRAM STATUS

The Plant Mitchell Ash Ponds A, 1, and 2 CCR multi-unit is in assessment monitoring due to the detection of SSLs of Appendix III constituents initially in March 2019. Similar SSLs of Appendix III constituents were detected in the October 2020 semi-annual event. No SSLs were identified for the Appendix IV constituents during the October 2020 event. Pursuant to § 257.94(e)(1) and Georgia EPD Rules 391-3-4-.10(6), Georgia Power will continue assessment monitoring.



## 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 and Georgia EPD Rule 391-3-4-.10(6). During the next semi-annual reporting period of 2021, Georgia Power will update the groundwater protection standards for Appendix IV constituents and conduct statistical analysis according to the regulations. The next semi-annual sampling event is planned for March 2021.



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# ***TABLES***

**TABLE 1  
SUMMARY OF MONITORING NETWORK WELL CONSTRUCTION AND GROUNDWATER ELEVATIONS**

Well Name	Installation Date	Northing <sup>(1)</sup>	Easting <sup>(1)</sup>	Ground Surface Elevation (feet NAVD88) <sup>(2)</sup> (Prior to June 2020 Resurvey)	Ground Surface Elevation (feet NAVD88) <sup>(2)</sup> (June 2020 Resurvey)	Top of Casing Elevation (feet NAVD88) <sup>(2)</sup> (Prior to June 2020 Resurvey)	Top of Casing Elevation (feet NAVD88) <sup>(2)</sup> (June 2020 Resurvey)	Top of Screen Elevation (feet NAVD88) <sup>(2)</sup>	Bottom of Screen Elevation (feet NAVD88) <sup>(2)</sup>	Total Well Depth Measured October 2020 (feet below TOC)	Total Well Depth on Construction Log (feet below land surface)	Groundwater Zone Screened	Location	Depth to Water (feet below TOC) 8/25/2020	Groundwater Elevation (feet NAVD88) <sup>(2)</sup> 8/25/2020	Depth to Water (feet below TOC) 10/05/2020	Groundwater Elevation (feet NAVD88) <sup>(2)</sup> 10/05/2020
PZ-1D	6/11/2014	526353.9	2307362.8	192.7	193.4	196.21	196.44	125.8	115.8	74.4*	78.0	Bedrock	Upgradient	52.98	143.46	50.46	145.98
PZ-2D	6/10/2014	526067.3	2308155.4	175.1	175.6	178.39	178.51	108.0	98.0	80.4	78.0	Bedrock	Upgradient	36.10	142.41	33.85	144.66
PZ-31	10/13/2016	526996.3	2306857.6	180.1	180.3	182.86	182.96	133.3	123.3	61.6	57.0	Bedrock	Upgradient	39.83	143.13	37.15	145.81
PZ-32	10/12/2016	526078.7	2307723.7	178.0	178.2	180.72	180.75	126.2	116.2	65.3	62.0	Bedrock	Upgradient	38.48	142.27	35.83	144.92
PZ-7D	6/3/2014	521425.1	2305995.3	170.0	170.3	173.13	173.08	123.9	113.9	60.4	57.0	Bedrock	Downgradient	33.28	139.80	32.28	140.80
PZ-14	7/25/2016	521473.1	2306804.8	180.4	180.9	183.62	183.46	140.9	130.9	53.2	50.0	Bedrock	Downgradient	44.23	139.23	42.00	141.46
PZ-15	7/23/2016	521600.2	2305357.3	166.9	167.4	170.10	170.37	97.4	87.4	83.2	80.0	Bedrock	Downgradient	30.52	139.85	30.17	140.20
PZ-16	7/25/2016	522125.0	2305359.9	170.7	171.2	173.71	173.92	131.2	121.2	53.2	50.0	Bedrock	Downgradient	35.02	138.90	32.98	140.94
PZ-17	7/22/2016	522587.9	2305886.7	169.5	170.1	172.66	172.91	120.1	110.1	62.7	60.0	Bedrock	Downgradient	32.07	140.84	31.52	141.39
PZ-18	7/23/2016	523145.7	2306142.3	166.6	167.3	169.78	170.11	117.3	107.3	63.2	60.0	Bedrock	Downgradient	30.04	140.07	28.78	141.33
PZ-19	7/13/2016	523582.1	2306153.6	169.1	169.4	171.96	172.05	120.4	110.4	62.6	59.0	Bedrock	Downgradient	32.56	139.49	30.92	141.13
PZ-23A	3/10/2020	523831.5	2307743.4	188.9	189.1	191.91	191.85	134.6	124.6	67.4	64.5	Bedrock	Downgradient	50.27	141.58	48.23	143.62
PZ-25	7/20/2016	524492.6	2306152.0	167.9	168.2	171.12	171.14	118.2	108.2	108.2	60.0	Bedrock	Downgradient	30.57	140.57	29.74	141.40
PZ-33	10/1/2016	522212.6	2307233.9	186.9	187.1	189.52	189.61	126.7	116.7	73.6	70.4	Bedrock	Downgradient	49.63	139.98	47.67	141.94

Notes:

1. Horizontal locations referenced to the North American Datum of 1983 (NAD 83) (2011).
  2. Vertical elevations are feet above mean sea level referenced to North American Vertical Datum of 1988 (NAVD88)
  3. TOC indicates top of casing.
  4. Groundwater elevations calculated using June 2020 TOC elevations
- \* Depth to top of pump  
Top and bottom screen elevations based on June 2020 resurveyed ground surface elevations.

**TABLE 2  
SUMMARY OF PIEZOMETER CONSTRUCTION AND GROUNDWATER ELEVATIONS**

Well Name	Installation Date	Northing <sup>(1)</sup>	Eastings <sup>(1)</sup>	Ground Surface Elevation (feet NAVD88) <sup>(2)</sup> (Prior to June 2020 Resurvey)	Ground Surface Elevation (feet NAVD88) <sup>(2)</sup> (June 2020 Resurvey)	Top of Casing Elevation (feet NAVD88) <sup>(2)</sup> (Prior to June 2020 Resurvey)	Top of Casing Elevation (feet NAVD88) <sup>(2)</sup> (June 2020 Resurvey)	Top of Screen Elevation (feet NAVD88) <sup>(2)</sup>	Bottom of Screen Elevation (feet NAVD88) <sup>(2)</sup>	Total Well Depth Measured October 2020 (feet below TOC)	Total Well Depth on Construction Log (feet below land surface)	Lithology Screened	Depth to Water (feet below TOC) 8/25/2020	Groundwater Elevation (feet NAVD88) <sup>(2)</sup> 8/25/2020	Depth to Water (feet below TOC) 10/05/2020	Groundwater Elevation (feet NAVD88) <sup>(2)</sup> 10/05/2020
PZ-01R	2/10/2016	not surveyed <sup>(4)</sup>		188.0	not surveyed <sup>(4)</sup>	191.87	not surveyed <sup>(4)</sup>	132.0	122.0	71.5	66.7	Overburden (Clay)/Bedrock	51.17	140.70	50.18	141.69
PZ-02R	2/3/2016	not surveyed <sup>(4)</sup>		188.5	not surveyed <sup>(4)</sup>	191.66	not surveyed <sup>(4)</sup>	131.6	121.6	70.9	67.2	Overburden (Clay)/Bedrock	51.69	139.97	50.04	141.62
PZ-2S	6/10/2014	526066.7	2308163.4	175.0	175.6	178.60	178.61	131.6	121.6	50.2*	54.4	Overburden (Clay)	36.21	142.40	33.90	144.71
PZ-03R	2/9/2016	not surveyed <sup>(4)</sup>		189.7	not surveyed <sup>(4)</sup>	192.35	not surveyed <sup>(4)</sup>	143.5	133.5	60.7	56.4	Overburden (Clay)/Bedrock	53.03	139.32	51.36	140.99
PZ-3D	5/28/2014	525373.2	2307918.1	187.7	188.1	190.82	190.98	110.5	100.5	91.2	88.0	Bedrock	48.89	142.09	46.66	144.32
PZ-4D	5/29/2014	524198.2	2308009.5	187.7	188.3	190.84	191.10	142.7	132.7	57.8	56.0	Bedrock	50.41	140.69	47.47	143.63
PZ-6S	6/13/2014	522254.0	2307207.5	186.2	186.5	189.34	189.47	148.9	138.9	42.5	48.0	Overburden (Clay)	18.96	170.51	16.17	173.30
PZ-8D	6/5/2014	521442.1	2305207.9	166.7	167.2	170.27	170.35	100.6	90.6	80.6	77.0	Bedrock	30.32	140.03	30.22	140.13
PZ-9D	6/4/2014	521770.9	2305127.5	162.6	163.2	166.08	166.16	126.6	116.6	49.5	47.0	Bedrock	26.67	139.49	26.01	140.15
PZ-10S	6/3/2014	522465.8	2305401.6	172.3	172.6	175.51	175.63	137.0	127.0	47.8	46.0	Bedrock	36.61	139.02	34.33	141.30
PZ-11S	6/12/2014	523112.9	2305532.1	188.2	188.7	191.57	191.69	141.1	131.1	61.5	58.0	Bedrock	52.61	139.08	50.78	140.91
PZ-12S	6/4/2014	523794.9	2305676.8	169.8	170.9	173.19	173.92	133.3	123.3	51.6	48.0	Bedrock	34.05	139.87	33.58	140.34
PZ-20	7/14/2016	524025.0	2306152.6	170.4	170.6	173.43	173.44	121.1	111.1	63.0	60.0	Bedrock	33.74	139.70	32.35	141.09
PZ-21	7/29/2016	524639.5	2306932.0	176.7	177.1	179.83	179.84	117.1	107.1	72.6	70.0	Bedrock	39.09	140.75	37.20	142.64
PZ-22	7/28/2016	524622.4	2307749.0	184.5	184.8	187.68	187.69	134.8	124.8	62.8	60.0	Bedrock	46.78	140.91	44.06	143.63
PZ-24A	3/6/2020	523151.8	2307445.9	192.2	192.3	195.07	194.97	142.3	132.3	63.3	61.0	Bedrock	54.74	140.23	52.42	142.55
PZ-26	10/1/2016	521463.1	2305040.7	163.7	163.9	166.60	166.70	125.4	115.4	52.3	48.5	Bedrock	27.03	139.67	26.68	140.02
PZ-27	10/4/2016	522440.4	2305235.1	161.5	161.9	164.40	164.58	123.6	113.6	52.3	48.3	Bedrock	25.68	138.90	23.81	140.77
PZ-28	10/13/2016	522953.9	2305347.3	163.0	163.5	165.67	165.96	126.5	116.5	50.8	47.0	Bedrock	26.98	138.98	24.97	140.99
PZ-29	10/4/2016	523857.8	2305593.0	170.0	170.4	172.95	173.18	123.9	113.9	60.5	56.5	Bedrock	33.04	140.14	33.01	140.17
MW-102	2/22/1995	524508.2	2306153.6	168.0	168.1	170.75	170.93	132.0	122.8	49.2	45.9	Bedrock	30.31	140.62	29.50	141.43
MW-108	2/16/1995	521561.7	2306874.5	183.0	182.8	185.59	185.47	145.1	136.0	54.4	47.4	Bedrock	46.35	139.12	43.91	141.56
MW-111	2/21/1995	521618.2	2305308.8	165.3	165.3	168.00	168.06	127.8	118.8	48.9	47.1	Bedrock	28.23	139.83	28.18	139.88
MW-113	2/21/1995	522357.4	2305578.4	172.1	171.9	174.76	174.61	129.6	120.1	52.0	52.4	Bedrock	35.66	138.95	33.37	141.24
MW-115	2/21/1995	522837.4	2306080.2	166.2	166.2	168.97	169.05	88.6	79.5	90.3	87.3	Bedrock	28.92	140.13	31.28	137.77
MW-116	2/23/1995	523649.9	2306082.5	169.0	168.9	171.86	171.69	100.7	94.3	55.2*	75.2	Bedrock	32.13	139.56	30.87	140.82

Notes:

- Horizontal locations referenced to the North American Datum of 1983 (NAD 83) (2011).
- Vertical elevations are feet above mean sea level referenced to North American Vertical Datum of 1988 (NAVD88)
- TOC indicates top of casing.
- Wells PZ-01R, PZ-02R, PZ-03R were not accessible due to construction activities and were not resurveyed in June 2020.

\* total depth to top of pump or depth of monitoring instruments

Piezometer PZ-03R was abandoned on 12/18/2020

**TABLE 3  
GROUNDWATER FLOW VELOCITY CALCULATIONS**

Potentiometric Map Date	Water-Bearing Zone	Location	Groundwater Elevations in Well Pairs (h <sub>1</sub> , h <sub>2</sub> ) (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 <sub>e</sub> )	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	7.3
August 2020	Limestone	PZ-23A to PZ-19	141.58	139.49	2.09	1620	0.001	3.04	0.2	0.02	7.3
October 2020	Limestone	PZ-1D to PZ-102	145.98	141.43	4.55	2190	0.002	3.04	0.2	0.03	11.0
October 2020	Limestone	PZ-23A to PZ-19	143.62	141.13	2.49	1620	0.002	3.04	0.2	0.02	7.3
October 2020	Limestone	PZ-33 to PZ-7D	141.94	140.80	1.14	1470	0.001	3.04	0.2	0.01	3.7

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 4  
ANALYTICAL DATA SUMMARY  
APPENDIX III  
OCTOBER 2020**

<b>Well Name</b>	<b>Sample Date</b>	<b>Boron</b>	<b>Calcium</b>	<b>Chloride</b>	<b>Fluoride</b>	<b>pH</b>	<b>Sulfate</b>	<b>TDS</b>
PZ-1D	10/6/2020	0.015 (J)	50.5	3.0	< 0.050	7.35	2.4	153
PZ-2D	10/6/2020	0.018 (J)	22.7	2.3	0.073 (J)	8.72	3.1	81.0
PZ-7D	10/7/2020	0.20	109	3.9	< 0.050	6.98	48.9	334
PZ-14	10/6/2020	0.026 (J)	111	4.4	< 0.050	7.01	11.0	241
PZ-15	10/7/2020	0.19	93.5	6.6	< 0.050	7.11	80.7	336
PZ-16	10/6/2020	0.19	84.0	6.4	< 0.050	7.24	42.4	261
PZ-17	10/7/2020	0.30	112	5.7	< 0.050	7.04	89.1	392
PZ-18	10/7/2020	0.39	129	5.0	< 0.050	6.91	87.3	425
PZ-19	10/7/2020	0.52	144	4.5	0.064 (J)	6.78	83.3	492
PZ-19 (FD-01)	10/7/2020	0.55	138	4.5	0.062 (J)	6.78	84.0	496
PZ-23A	10/6/2020	0.16	144	7.0	0.052 (J)	6.78	71.2	462
PZ-25	10/7/2020	0.18	84.2	1.8	0.13	6.95	38.1	280
PZ-25 (FD-02)	10/7/2020	0.19	85.7	1.8	0.14	6.95	38.3	288
PZ-31	10/6/2020	0.011 (J)	98.8	3.4	< 0.050	7.01	0.98 (J)	254
PZ-32	10/6/2020	0.015 (J)	62.8	2.3	< 0.050	7.27	1.9	169
PZ-33	10/7/2020	0.35	94.7	2.0	< 0.050	7.04	54.6	337

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 5  
ANALYTICAL DATA SUMMARY  
APPENDIX IV  
AUGUST AND OCTOBER 2020**

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-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-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-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-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-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-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-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-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 (FD-01)	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)
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 (DUP-02)	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
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-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 (DUP-01)	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)
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 (FD-02)	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)
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-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-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

- Notes:**
1. mg/L indicates metals analyses units of milligrams per liter.
  2. NA indicates a constituent was not analyzed in October semi-annual event 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.
  5. Radium units are pci/L (picocuries per liter)
  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 7**  
**SUMMARY OF GROUNDWATER PROTECTION STANDARDS**

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

Notes:

mg/L - milligrams per liter

piC/L - picoCuries per liter

MCL - Maximum Contaminant Level

Federal CCR Rule 40 CFR § 257.95 (h) Amendment July 30, 2018 lists levels for cobalt, lead, lithium, and molybdenum.

GWPS - Groundwater Protection Standard

(1) Constituent without an established MCL. The background limits were used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia Environmental Protection Division (EPD) Rule 391-3-4-.10(6)(a).

(2) Under the existing Georgia EPD Rules, the GWPS is: (i) the MCL, (ii) where the MCL is not established, the background concentration, or (iii) background concentrations for constituents where the background level is higher than the MCL.

(3) Currently, there is no MCL established for lead. The value listed is the established USEPA Action Level for drinking water.

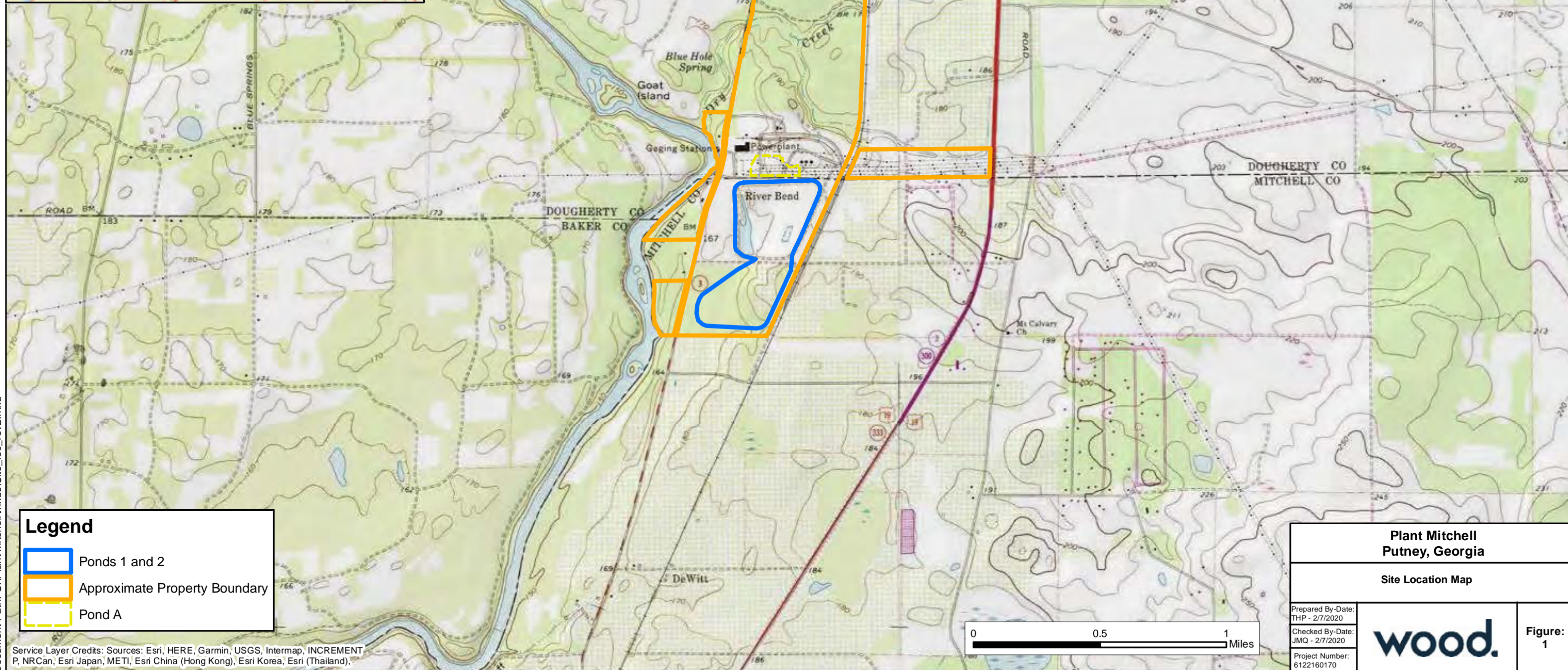
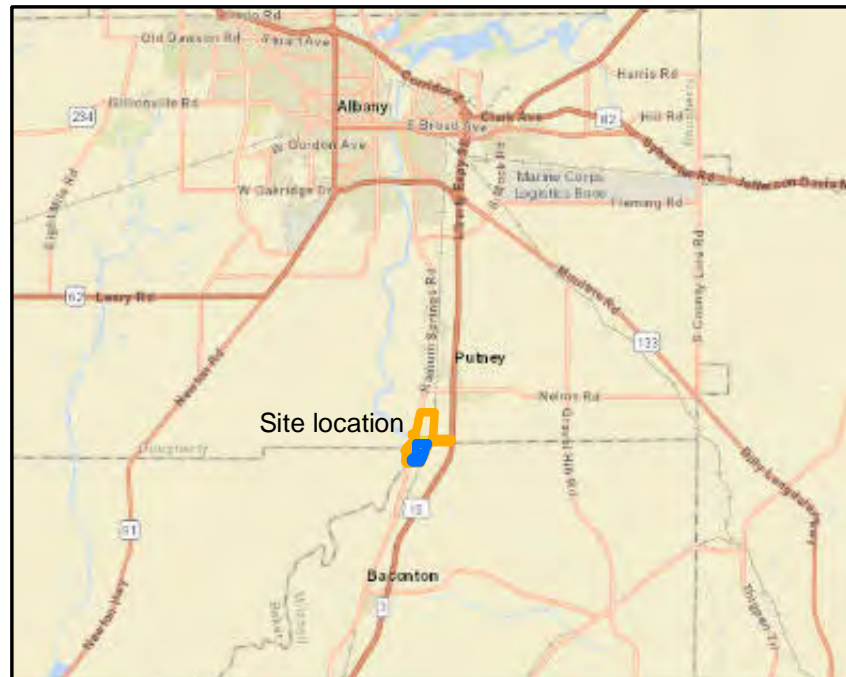
(4) The background tolerance limit (TL) used to evaluate GWPS for lithium is equal to the most recent laboratory specified reporting limit (RL).

Per the Statistical Analysis Plan, and in accordance with the Unified Guidance, a non-parametric limit approach was used since the data set contains greater than 50% non-detect results for this analyte. Under this approach, the TL equals the highest value reported, for which is the laboratory RL. However, the highest laboratory RL used was 0.05 mg/L. As a result, we have modified the GWPS to be equal to the most recently used RL (0.03 mg/L).



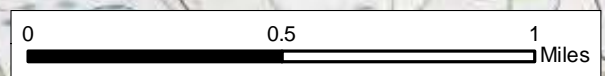
## ***FIGURES***

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**Legend**

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

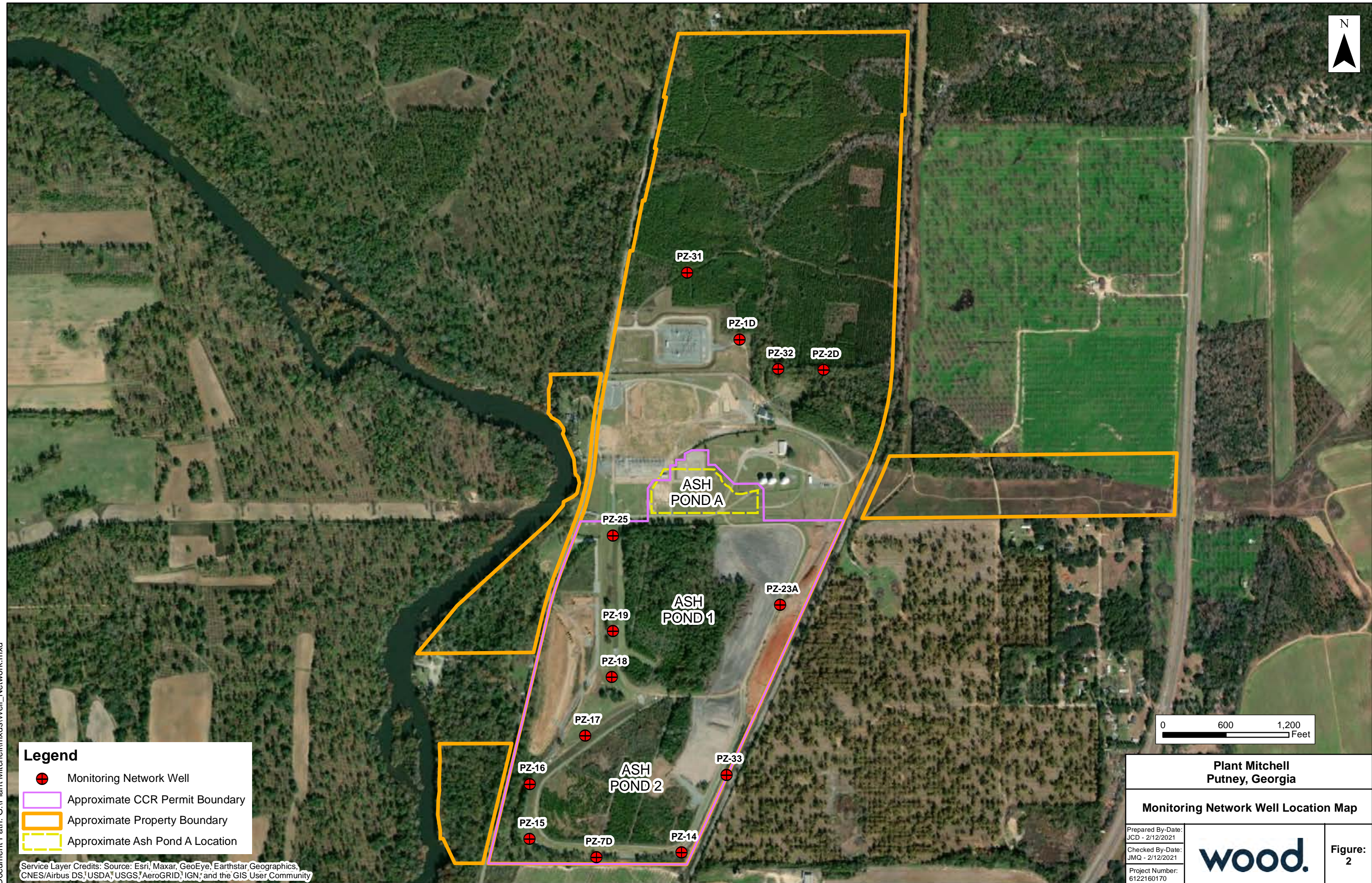


<b>Plant Mitchell Putney, Georgia</b>	
<b>Site Location Map</b>	
Prepared By-Date: THP - 2/7/2020	
Checked By-Date: JMQ - 2/7/2020	
Project Number: 6122160170	





**Figure:  
1**

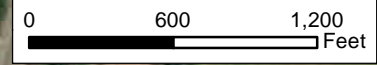
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Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),



**Legend**

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

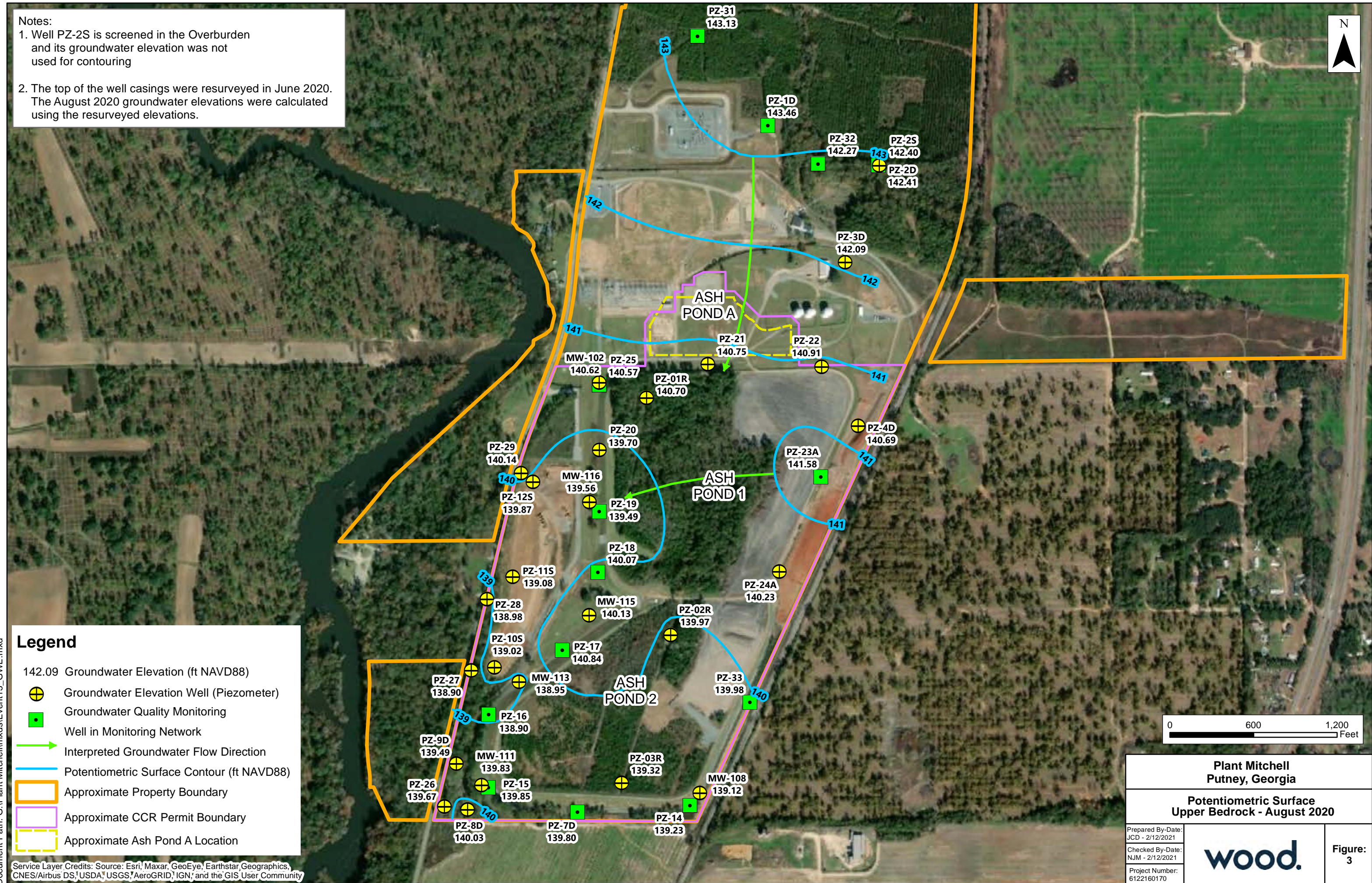


<b>Plant Mitchell Putney, Georgia</b>	
<b>Monitoring Network Well Location Map</b>	
Prepared By-Date: JCD - 2/12/2021	
Checked By-Date: JMQ - 2/12/2021	
Project Number: 6122160170	
<b>Figure: 2</b>	

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

Notes:

- Well PZ-2S is screened in the Overburden and its groundwater elevation was not used for contouring
- The top of the well casings were resurveyed in June 2020. The August 2020 groundwater elevations were calculated using the resurveyed elevations.



**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

**Plant Mitchell  
Putney, Georgia**

**Potentiometric Surface  
Upper Bedrock - August 2020**

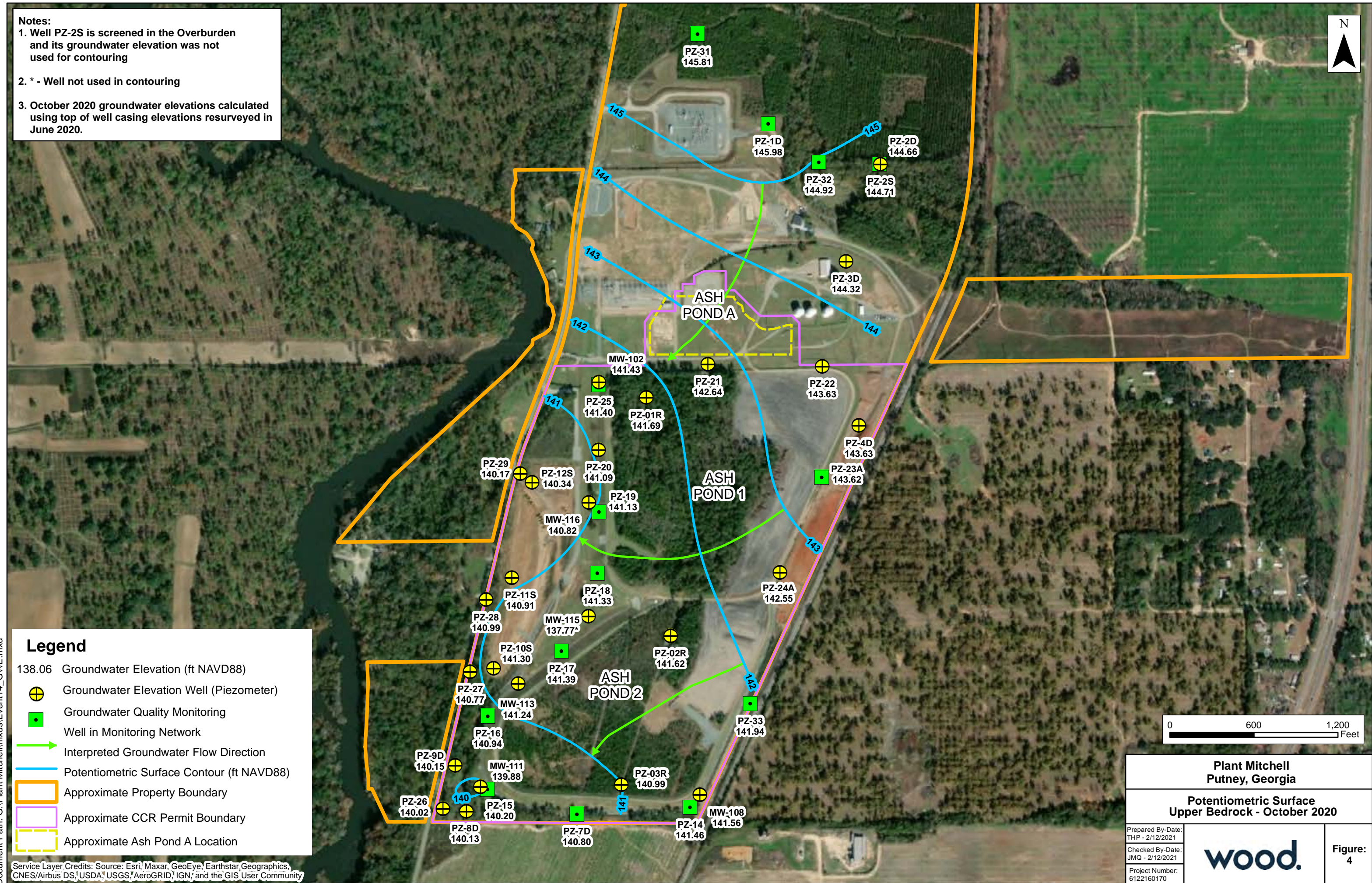
Prepared By-Date: JCD - 2/12/2021		<b>Figure: 3</b>
Checked By-Date: NJM - 2/12/2021		
Project Number: 6122160170		

Document Path: G:\Plant Mitchell\mxd\Event13\_GWE.mxd

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

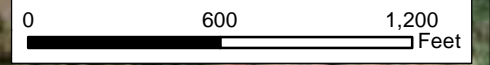
**Notes:**

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 resurveyed in June 2020.



**Legend**

- 138.06 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



<b>Plant Mitchell Putney, Georgia</b>		
<b>Potentiometric Surface Upper Bedrock - October 2020</b>		
Prepared By-Date: THP - 2/12/2021		<b>Figure: 4</b>
Checked By-Date: JMQ - 2/12/2021		
Project Number: 6122160170		

Document Path: G:\Plant Mitchell\mxds\Event14\_GWE.mxd

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# ***APPENDIX A***

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## ***WELL ABANDONMENT***



February 15, 2021

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

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

T: +1 770-421-3400

[www.woodplc.com](http://www.woodplc.com)

**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.

Mr. Jeremy Kerly  
Well Abandonment at Plant Mitchell  
Albany, Dougherty and Mitchell County, Georgia



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

A handwritten signature in blue ink, reading 'Gregory J. Wrenn', is positioned to the right of the typed name.

Gregory J. Wrenn, PE  
Project Manager

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 Decommissioned	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



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~~<sup>DH</sup> estimated to be 2" well through natural soil. Material above ~~31.4~~<sup>25</sup> 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

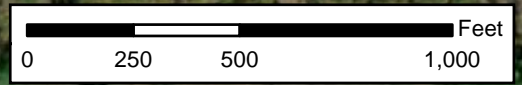
**ATTACHMENT B**  
**LOCATION OF ABANDONED PIEZOMETER**



Ash Pond 1

Ash Pond 2



PZ-03R



Plant Mitchell  
Putney, Georgia

Location of Abandoned  
Piezometer

**Legend**

-  Temporary Piezometer Screened in Bedrock
-  Property Boundary

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

Prepared By-Date:  
NJM - 1/19/2021

Checked By-Date:  
DH - 1/19/2021

Project Number:  
61220160170




Figure:  
1


Z:\6121170635\_MIT\_CSM\_Hydrogeo1\_MXDslPZ\_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
	
<p>Setup drill rig on well to begin overdrilling well to abandon well.</p>	

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	4
Photographer: Daniel Howard	Date: 12/17/20
	
<p>Two-inch inner casing of well overdrilled with 6 inch auger down to 53 ft.</p>	



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.

# ***APPENDIX B***

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## ***LABORATORY ANALYTICAL AND FIELD SAMPLING REPORTS***

September 10, 2020

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 Co. Services  
Rhonda Quinn, WOOD E&I  
Greg Wrenn, WOOD E&I



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

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### **Pace Analytical Services Charlotte**

9800 Kinsey 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

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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
Massachusetts Certification #: M-NC030  
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40  
South Carolina Certification #: 99030001  
Virginia/VELAP Certification #: 460222

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### **Pace Analytical Services Peachtree Corners**

110 Technology Pkwy, Peachtree Corners, GA 30092  
Florida DOH Certification #: E87315  
Georgia DW Inorganics Certification #: 812  
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381  
South Carolina Certification #: 98011001  
Virginia Certification #: 460204

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## REPORT OF LABORATORY ANALYSIS

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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

## REPORT OF LABORATORY ANALYSIS

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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

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

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

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

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

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92492821001</b>	<b>PZ-23A</b>					
	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	
<b>92492821002</b>	<b>DUP-02</b>					
	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	
<b>92492821003</b>	<b>PZ-15</b>					
	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	
<b>92492821004</b>	<b>PZ-16</b>					
	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	
<b>92492821005</b>	<b>PZ-17</b>					
	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	
<b>92492821006</b>	<b>PZ-19</b>					
	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	

### REPORT OF LABORATORY ANALYSIS

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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
<b>92492821006</b>	<b>PZ-19</b>					
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	
<b>92492821007</b>	<b>PZ-33</b>					
	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	
<b>92492821008</b>	<b>PZ-14</b>					
	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	
<b>92492821009</b>	<b>PZ-7D</b>					
	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	
<b>92492821011</b>	<b>PZ-32</b>					
	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	
<b>92492821012</b>	<b>PZ-31</b>					
	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	
<b>92492821013</b>	<b>PZ-1D</b>					
	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	
<b>92492821014</b>	<b>FB-01</b>					
EPA 7470A	Mercury	0.000099J	mg/L	0.00050	09/01/20 11:19	
<b>92492821015</b>	<b>PZ-2D + QC</b>					
	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	

### REPORT OF LABORATORY ANALYSIS

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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
<b>92492821015</b>	<b>PZ-2D + QC</b>					
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	
<b>92492821016</b>	<b>PZ-25</b>					
	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	
<b>92492821017</b>	<b>DUP-01</b>					
	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	
<b>92492821018</b>	<b>PZ-18 + QC</b>					
	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	

### REPORT OF LABORATORY ANALYSIS

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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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.64	Std. Units			1		09/10/20 09:33		
<b>6020 MET ICPMS</b>									
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	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
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	

### REPORT OF LABORATORY ANALYSIS

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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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.64	Std. Units			1		09/10/20 09:33		
<b>6020 MET ICPMS</b>									
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	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	7.08	Std. Units			1		09/10/20 09:33		
<b>6020 MET ICPMS</b>									
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	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
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
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**Field Data**

Analytical Method:  
Pace Analytical Services - Charlotte

pH	7.18	Std. Units			1		09/10/20 09:33		
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**6020 MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Antimony	<b>0.00037J</b>	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	<b>0.036</b>	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	<b>0.00087J</b>	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	
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**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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.98	Std. Units			1		09/10/20 09:33		
<b>6020 MET ICPMS</b>									
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	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.68	Std. Units			1		09/10/20 09:33		
<b>6020 MET ICPMS</b>									
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	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.99	Std. Units			1		09/10/20 09:33		
<b>6020 MET ICPMS</b>									
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	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
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			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.98	Std. Units			1		09/10/20 09:33		
<b>6020 MET ICPMS</b>									
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	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	7.01	Std. Units			1		09/10/20 09:33		
<b>6020 MET ICPMS</b>									
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	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
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			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6020 MET ICPMS</b>									
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	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	7.53	Std. Units			1		09/10/20 09:33		
<b>6020 MET ICPMS</b>									
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	0.00063J	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	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
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	

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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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	7.14	Std. Units			1		09/10/20 09:33		
<b>6020 MET ICPMS</b>									
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	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
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	

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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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	7.49	Std. Units			1		09/10/20 09:33		
<b>6020 MET ICPMS</b>									
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	0.00065J	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	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
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			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6020 MET ICPMS</b>									
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	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.000099J</b>	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:19	7439-97-6	
<b>300.0 IC Anions 28 Days</b>									
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	

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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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	7.97	Std. Units			1		09/10/20 09:33		
<b>6020 MET ICPMS</b>									
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	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
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	

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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			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	<b>7.09</b>	Std. Units			1		09/10/20 09:33		
<b>6020 MET ICPMS</b>									
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	<b>0.10</b>	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	<b>0.0016J</b>	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	<b>0.0065J</b>	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	<b>0.00037J</b>	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:54	7440-28-0	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.14</b>	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			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	<b>7.09</b>	Std. Units			1		09/10/20 09:33		
<b>6020 MET ICPMS</b>									
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	<b>0.10</b>	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	<b>0.0015J</b>	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	<b>0.0062J</b>	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	<b>0.00036J</b>	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 19:00	7440-28-0	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	<b>0.14</b>	mg/L	0.10	0.050	1		08/29/20 01:08	16984-48-8	

### REPORT OF LABORATORY ANALYSIS

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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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.88	Std. Units			1		09/10/20 09:33		
<b>6020 MET ICPMS</b>									
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	
<b>7470 Mercury</b>									
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	
<b>300.0 IC Anions 28 Days</b>									
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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### QUALITY CONTROL DATA

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

QC Batch: 563083 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A 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	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Antimony	mg/L	0.00038J	0.1	0.1	0.096	0.095	96	95	75-125	2	20	

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### QUALITY CONTROL DATA

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Parameter	Units	2985844		2985845		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92492821001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
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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### QUALITY CONTROL DATA

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

QC Batch: 563747 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A 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	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92492563004	Result	Conc.	Conc.							Result
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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### QUALITY CONTROL DATA

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Parameter	Units	2988644		2988645		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92492563004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
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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### 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	2985600		2985601		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Fluoride	mg/L	0.95	2.5	3.7	3.7	109	109	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985602 2985603

Parameter	Units	2985602		2985603		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Fluoride	mg/L	ND	2.5	2.7	2.8	108	109	90-110	1	10	

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### QUALITY CONTROL DATA

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

QC Batch: 563042 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: 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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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

QC Batch: 563290

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: 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	2986803		2986804		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
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	2986805		2986806		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
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

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### 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.

## REPORT OF LABORATORY ANALYSIS

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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

### REPORT OF LABORATORY ANALYSIS

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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
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		

### REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Rec

WO#: 92492821

Client Name: G-A Power



92492821

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Oth.

Tracking #: 8121 93944915 / 8121 93944990 / 8121 93944926

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 714 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

Date and initials of person examining contents: 9/27/2010

Temp should be above freezing to 6°C

Comments:

Table with 16 rows of checklist items and checkboxes. Items include Chain of Custody Present, Chain of Custody Filled Out, Chain of Custody Relinquished, Sampler Name & Signature on COC, Samples Arrived within Hold Time, Short Hold Time Analysis (<72hr), Rush Turn Around Time Requested, Sufficient Volume, Correct Containers Used, Containers Intact, Filtered volume received for Dissolved tests, Sample Labels match COC, All containers needing preservation have been checked, All containers needing preservation are found to be in compliance with EPA recommendation, exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Samples checked for dechlorination, Headspace in VOA Vials (>6mm), Trip Blank Present, Trip Blank Custody Seals Present, 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)



Document Name:  
**Bottle Identification Form (BIF)**  
 Document No.:  
**F-CAR-CS-043-Rev.00**

Document Issued: March 14, 2019  
 Page 1 of 1  
 Issuing Authority:

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

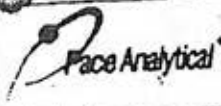
Matrix	Item#	Matrix	Item#	Matrix	Item#	Matrix	Item#	Matrix	Item#	Matrix	Item#	Matrix	Item#	Matrix	Item#
	BP4U-125 mL Pipette Unpreserved (N/A) (C)		BP3U-250 mL Plastic Unpreserved (N/A)		BP2U-500 mL Plastic Unpreserved (N/A)		BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (C)		BP3N-250 mL plastic HNO3 (pH < 2)		BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)		BP4C-125 mL Plastic NaOH (pH > 12) (C)
	WGJU-Wide-mouthed Glass Jar Unpreserved		AG1U-1 liter Amber Unpreserved (N/A) (C)		AG1H-1 liter Amber HCl (pH < 2)		AG3U-250 mL Amber Unpreserved (N/A) (C)		AG1S-1 liter Amber H2SO4 (pH < 2)		AG3S-250 mL Amber H2SO4 (pH < 2)		AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C)		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)-S035 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)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)
	AG0U-100 mL Amber Unpreserved vials (N/A)		V5GU-20 mL Scintillation vials (N/A)												

*BP1N*

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



Document Name:  
Bottle Identification Form (BIF)  
Document No.:  
F-CAR-CS-043-Rev.00

Document Issued: March 14, 2019  
Page 1 of 1  
Issuing Authority:  
Pace Carolinas Quality Office

Project #

**WO# : 92492821**

PH: 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, DR0/8015 (water) DOC, LUHg

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

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	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) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	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 Tit (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)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG9U-100 mL Amber Unpreserved vials (N/A)	VS9U-20 mL Scintillation vials (N/A)	
	1																											
	2																											
	3																											
	4																											
	5																											
	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 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.

### Section A

**Client Information:**  
 Agency: Georgia Power  
 Address: 1075 Big Sandy Road  
 City: GA 30114  
 Phone: (770)421-3316  
 Fax:  
 E-mail: thonda.quinn@amec.com  
 Project Name: Steadard  
 Project #: 1  
 Requested Due Date: 8/26/20

### Section B

**Required Project Information:**  
 Report To: Rhonda Quinn  
 Copy To:  
 Purchase Order #:  
 Project Name: Michael App IV Scan  
 Project #:

### Section C

**Invoice Information:**  
 Attention:  
 Company Name:  
 Address:  
 POC Name:  
 POC Title:  
 POC Project Manager:  
 POC Phone #:  
 POC Email:  
 POC Fax #:

**Regulatory Agency:**  
 State / Location:  
 GA

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Y/N	Requested Analysis Returned (Y/N)	Residual Chlorine (Y/N)	TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)	
				START DATE	END DATE													
1	PZ-23A			8/26/20	10:10		4		300.0 - F	X			6.64					
2	DUP-02						4		App IV Metals	X			6.64					
3	PZ-15			8/25	12:25		4		RAD 931509120	X			7.08					
4	PZ-16			8/16	14:16		4			X			7.18					
5	PZ-17			8/15	15:45		4			X			6.98					
6																		
7																		
8																		
9																		
10																		
11																		
12																		

**ADDITIONAL COMMENTS:**  
 RELINQUISHED BY / AFFILIATION: David Howard / US Road  
 DATE: 8/26/20 TIME: 1800  
 ACCEPTED BY / AFFILIATION: Charles Foster  
 DATE: 8/26/20 TIME: 0947  
 SAMPLE CONDITIONS: 41 Y 9 S

**SAMPLER NAME AND SIGNATURE:**  
 PRINT NAME OF SAMPLER: David Howard  
 SIGNATURE OF SAMPLER: David Howard  
 DATE signed: 8/26/20

**TEMP in C:**  
 Received on Ice (Y/N):  
 Custody Sealed (Y/N):  
 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.

Client Information:

Client Name: Georgia Power  
 Address: 1075 8th Street Road  
 City: Marietta, GA 30144  
 Phone: (770) 421-3516  
 Fax: (770) 421-3516  
 Email: florida.quinn@pac.com  
 Project Name: **Standard**

Required Project Information:

Report To: Rhonda Quinn  
 Copy To:  
 Purchase Order #:  
 Project Name: **Marietta App IV Seam**  
 Project #:

Invoice Information:

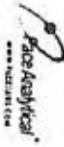
Attention:  
 Company Name:  
 Address:  
 Project Manager: Kevin Perry  
 Pace Profile #: 10034

Page: 1 of 1  
 Regulatory Agency: GA  
 State / Location:

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Y/N	Requested Analytic Filtered (Y/N)	Residual Chlorine (Y/N)
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3				
1	PZ-19	WG	W	8/24/15	15:35	4	1	3									6.24/6.25/6.26
2	PZ-33	WG	W	10/26/14		4	1	3									pH=6.68
3	PZ-14	WG	W	14/10/14		4	1	3									pH=6.99
4	PZ-7D	WG	W	15/35/14		4	1	3									pH=6.98 pH=7.01

REQUISITED BY / AFFILIATION: David Howard / Wood  
 DATE: 3/4/20  
 TIME: 1800  
 ACCEPTED BY / AFFILIATION: Charles F. ...  
 DATE: 8/22/20  
 TIME: 0947  
 SAMPLE CONDITIONS: Y Y

SAMPLER NAME AND SIGNATURE: David Howard  
 PRINT Name of SAMPLER: David Howard  
 SIGNATURE OF SAMPLER: [Signature]  
 DATE Signed: 8/26/20  
 TEMP in C:  
 Received on Ice (Y/N):  
 Custody Sealed (Y/N):  
 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.

<b>Section A</b> Client Information: Agency: Georgia Power Address: 1073 Bq Shanty Road Marietta, GA 30144 Email: rhonda.quinn@gnpc.com Phone: (770) 421-3516 Project Name: <b>Standard</b> Requested Due Date:	<b>Section B</b> Required Project Information: Report To: Rhonda Quinn Copy To: Purchase Order #: Project Name: <b>Michael App IV Scan</b> Project #: <b>Section C</b> Invoice Information: Attention: Company Name: Address: Pace Office: Pace Project Manager: <b>Kevin Hettig@gsce labs.com</b> Pace Profile #: 10834 Requested Analyte Filtered (Y/N): Regulatory Agency: <b>GA</b> State / Location:
---	--

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -)	MATRIX CODE (See valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							Analytes Test	Y/N	Residual Chlorine (Y/N)	
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other
1	EB-01	WG		8/26/20	1445	4	1	3										6242821
2	PZ-32	WG		8/26/20	1455	4	1	3										PH=7.53
3	PZ-31	WG		8/26/20	1615	4	1	3										PH=7.14
4	PZ-1D	WG		8/26/20	1605	4	1	3										PH=7.49
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

<b>Section D</b> Relinquished By / Affiliation: Name: <b>Daniel Howard Wood</b> Date: <b>8/26/20</b> Time: <b>1800</b>	<b>Section E</b> Accepted By / Affiliation: Name: <b>Charles Fisher</b> Date: <b>8/27/20</b> Time: <b>0947</b> Temperature: <b>33.3</b>
<b>Section F</b> Sampler Name and Signature: PRINT Name of Sampler: <b>Daniel Howard</b> SIGNATURE of Sampler: <i>Daniel Howard</i> DATE signed: <b>8/26/20</b>	
<b>Section G</b> Received on Ice (Y/N): <input type="checkbox"/> Custody Sealed (Y/N): <input type="checkbox"/> Cooler (Y/N): <input type="checkbox"/> Samples Intact (Y/N): <input checked="" type="checkbox"/>	





# CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**  
 Client Information:  
 Name: Georgia Power  
 Address: 1075 Bq Shanty Road  
 Inglewood, GA 30144  
 Email: rhonda.quinn@gaep.com  
 Phone: (770)421-3316  
 Fax: (770)421-3316  
 Project Name: Standard

**Section B**  
 Required Project Information:  
 Report To: Rhonda Quinn  
 Copy To:  
 Purchase Order #:  
 Project Name: Microbial App IV Scan  
 Project #:  
 Invoice Information:  
 Attention:  
 Company Name:  
 Address:  
 P.O. Box:  
 Project Manager: Kevin Henning@pace-analytical.com  
 Pace Profile #: 10034

**Section C**  
 Regulatory Agency: GA  
 State / Location:

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, ., -)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (IG=GRAD C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Y/N	Requested Analysis Returned (Y/N)	Residual Chlorine (Y/N)
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Method				
1	FR-01	WTG	WTG	8/24/20	8/24/20	1800	4											
2	PZ-2D + QC	WTG	WTG	8/24/20	8/24/20	1800	6											
3	PZ-25	WTG	WTG	8/24/20	8/24/20	1800	4											
4	DUP-01	WTG	WTG	8/24/20	8/24/20	1800	4											

**RELEASING BY / AFFILIATION:** Daniel Howard D/Ward 8/26/20 1800

**ACCEPTED BY / AFFILIATION:** Charles Parker 8/27/20 094925 Y

**ADDITIONAL COMMENTS:**

**TEMP in C:**

**Received on Ice (Y/N):**

**Custody Sealed (Y/N):**

**Cooler (Y/N):**

**Samples Intact (Y/N):**

**SAMPLER NAME AND SIGNATURE:**  
 PRINT Name of SAMPLER: Daniel Howard  
 SIGNATURE OF SAMPLER: Daniel Howard  
 DATE signed: 8/26/20

September 16, 2020

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 Co. Services  
Rhonda Quinn, WOOD E&I  
Greg Wrenn, WOOD E&I



## REPORT OF LABORATORY ANALYSIS

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## 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

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## REPORT OF LABORATORY ANALYSIS

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## 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

## REPORT OF LABORATORY ANALYSIS

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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
92492815014	FB-01	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92492815015	PZ-2D + QC	Total Radium Calculation	JAL	1	PASI-PA
		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
		EPA 9315	LAL	1	PASI-PA
92492815017	DUP-01	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92492815018	PZ-18 + QC	Total Radium Calculation	JAL	1	PASI-PA
		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 APP IV SCAN RADS  
 Pace Project No.: 92492815

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92492815001</b>	<b>PZ-23A</b>					
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	
<b>92492815002</b>	<b>DUP-02</b>					
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	
<b>92492815003</b>	<b>PZ-15</b>					
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	
<b>92492815004</b>	<b>PZ-16</b>					
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	

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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
<b>92492815005</b>	<b>PZ-17</b>					
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	
<b>92492815006</b>	<b>PZ-19</b>					
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	
<b>92492815007</b>	<b>PZ-33</b>					
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	
<b>92492815008</b>	<b>PZ-14</b>					
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

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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
<b>92492815009</b>	<b>PZ-7D</b>					
EPA 9315	Radium-226	0.200 ± 0.221 (0.432)	pCi/L		09/10/20 07:32	
EPA 9320	Radium-228	C:88% T:NA 0.372 ± 0.394 (0.817)	pCi/L		09/11/20 14:49	
Total Radium Calculation	Total Radium	C:72% T:80% 0.572 ± 0.615 (1.25)	pCi/L		09/14/20 14:18	
<b>92492815010</b>	<b>EB-01</b>					
EPA 9315	Radium-226	0.191 ± 0.241 (0.505)	pCi/L		09/10/20 07:32	
EPA 9320	Radium-228	C:91% T:NA 0.495 ± 0.443 (0.899)	pCi/L		09/11/20 11:49	
Total Radium Calculation	Total Radium	C:72% T:74% 0.686 ± 0.684 (1.40)	pCi/L		09/14/20 14:18	
<b>92492815011</b>	<b>PZ-32</b>					
EPA 9315	Radium-226	0.0922 ± 0.224 (0.533)	pCi/L		09/10/20 07:32	
EPA 9320	Radium-228	C:92% T:NA 0.248 ± 0.367 (0.791)	pCi/L		09/11/20 11:49	
Total Radium Calculation	Total Radium	C:74% T:85% 0.340 ± 0.591 (1.32)	pCi/L		09/14/20 14:18	
<b>92492815012</b>	<b>PZ-31</b>					
EPA 9315	Radium-226	0.0240 ± 0.142 (0.383)	pCi/L		09/10/20 07:32	
EPA 9320	Radium-228	C:92% T:NA 0.381 ± 0.378 (0.780)	pCi/L		09/11/20 11:49	
Total Radium Calculation	Total Radium	C:74% T:85% 0.405 ± 0.520 (1.16)	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
<b>92492815013</b>	<b>PZ-1D</b>					
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	
<b>92492815014</b>	<b>FB-01</b>					
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	
<b>92492815015</b>	<b>PZ-2D + QC</b>					
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	
<b>92492815016</b>	<b>PZ-25</b>					
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	

### REPORT OF LABORATORY ANALYSIS

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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
<b>92492815017</b>	<b>DUP-01</b>					
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	
<b>92492815018</b>	<b>PZ-18 + QC</b>					
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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### 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	<b>0.365 ± 0.257 (0.392)</b> <b>C:83% T:NA</b>	pCi/L	09/10/20 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.409 ± 0.387 (0.789)</b> <b>C:71% T:80%</b>	pCi/L	09/11/20 14:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.774 ± 0.644 (1.18)</b>	pCi/L	09/14/20 14:03	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DUP-02</b> <b>Lab ID: 92492815002</b> Collected: 08/26/20 00:00      Received: 08/27/20 09:47      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.214 ± 0.222 (0.423)</b> <b>C:83% T:NA</b>	pCi/L	09/10/20 07:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.338 ± 0.350 (0.722)</b> <b>C:71% T:86%</b>	pCi/L	09/11/20 14:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.552 ± 0.572 (1.15)</b>	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	<b>0.161 ± 0.250 (0.554)</b> <b>C:91% T:NA</b>	pCi/L	09/10/20 07:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.520 ± 0.384 (0.740)</b> <b>C:69% T:85%</b>	pCi/L	09/11/20 14:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.681 ± 0.634 (1.29)</b>	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	<b>0.0680 ± 0.181 (0.439)</b> <b>C:88% T:NA</b>	pCi/L	09/10/20 07:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.431 ± 0.407 (0.834)</b> <b>C:74% T:82%</b>	pCi/L	09/11/20 14:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.499 ± 0.588 (1.27)</b>	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	<b>0.411 ± 0.274 (0.410)</b> <b>C:82% T:NA</b>	pCi/L	09/10/20 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.21 ± 0.537 (0.885)</b> <b>C:72% T:77%</b>	pCi/L	09/11/20 14:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.62 ± 0.811 (1.30)</b>	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	<b>0.324 ± 0.236 (0.365)</b> <b>C:87% T:NA</b>	pCi/L	09/10/20 07:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.379 ± 0.409 (0.854)</b> <b>C:70% T:88%</b>	pCi/L	09/11/20 14:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.703 ± 0.645 (1.22)</b>	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	<b>0.400 ± 0.285 (0.445)</b> <b>C:81% T:NA</b>	pCi/L	09/10/20 07:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.382 ± 0.411 (0.856)</b> <b>C:69% T:80%</b>	pCi/L	09/11/20 14:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.782 ± 0.696 (1.30)</b>	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	<b>0.0725 ± 0.261 (0.641)</b> <b>C:83% T:NA</b>	pCi/L	09/10/20 07:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0427 ± 0.363 (0.835)</b> <b>C:69% T:91%</b>	pCi/L	09/11/20 14:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.115 ± 0.624 (1.48)</b>	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	<b>0.200 ± 0.221 (0.432)</b> <b>C:88% T:NA</b>	pCi/L	09/10/20 07:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.372 ± 0.394 (0.817)</b> <b>C:72% T:80%</b>	pCi/L	09/11/20 14:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.572 ± 0.615 (1.25)</b>	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

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: EB-01</b> <b>Lab ID: 92492815010</b> Collected: 08/25/20 14:45      Received: 08/27/20 09:47      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.191 ± 0.241 (0.505)</b> <b>C:91% T:NA</b>	pCi/L	09/10/20 07:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.495 ± 0.443 (0.899)</b> <b>C:72% T:74%</b>	pCi/L	09/11/20 11:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.686 ± 0.684 (1.40)</b>	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	<b>0.0922 ± 0.224 (0.533)</b> <b>C:92% T:NA</b>	pCi/L	09/10/20 07:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.248 ± 0.367 (0.791)</b> <b>C:74% T:85%</b>	pCi/L	09/11/20 11:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.340 ± 0.591 (1.32)</b>	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-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	<b>0.0240 ± 0.142 (0.383)</b> <b>C:92% T:NA</b>	pCi/L	09/10/20 07:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.381 ± 0.378 (0.780)</b> <b>C:74% T:85%</b>	pCi/L	09/11/20 11:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.405 ± 0.520 (1.16)</b>	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

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: PZ-1D</b> <b>Lab ID: 92492815013</b> Collected: 08/25/20 16:05      Received: 08/27/20 09:47      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.384 ± 0.294 (0.526)</b> <b>C:92% T:NA</b>	pCi/L	09/10/20 07:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.393 ± 0.391 (0.805)</b> <b>C:77% T:81%</b>	pCi/L	09/11/20 11:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.777 ± 0.685 (1.33)</b>	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	<b>0.235 ± 0.231 (0.440)</b> <b>C:92% T:NA</b>	pCi/L	09/10/20 07:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.381 ± 0.433 (0.910)</b> <b>C:72% T:78%</b>	pCi/L	09/11/20 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.616 ± 0.664 (1.35)</b>	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

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: PZ-2D + QC</b> <b>Lab ID: 92492815015</b> Collected: 08/26/20 10:52      Received: 08/27/20 09:47      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.244 ± 0.227 (0.409)</b> <b>C:88% T:NA</b>	pCi/L	09/10/20 07:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.361 ± 0.361 (0.745)</b> <b>C:74% T:82%</b>	pCi/L	09/11/20 11:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.605 ± 0.588 (1.15)</b>	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	<b>0.412 ± 0.325 (0.580)</b> <b>C:81% T:NA</b>	pCi/L	09/10/20 07:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.538 ± 0.440 (0.884)</b> <b>C:72% T:81%</b>	pCi/L	09/11/20 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.950 ± 0.765 (1.46)</b>	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	<b>0.490 ± 0.285 (0.386)</b> <b>C:91% T:NA</b>	pCi/L	09/10/20 07:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.636 ± 0.437 (0.844)</b> <b>C:70% T:82%</b>	pCi/L	09/11/20 11:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.13 ± 0.722 (1.23)</b>	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

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: PZ-18 + QC</b> <b>Lab ID: 92492815018</b> Collected: 08/27/20 10:05      Received: 08/28/20 11:08      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.00989 ± 0.0860 (0.182)</b> <b>C:91% T:NA</b>	pCi/L	09/10/20 18:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0840 ± 0.502 (1.14)</b> <b>C:58% T:85%</b>	pCi/L	09/15/20 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.0939 ± 0.588 (1.32)</b>	pCi/L	09/16/20 10:12	7440-14-4	

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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	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

QC Batch: 412352

Analysis Method: EPA 9315

QC Batch 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	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

QC Batch: 412340

Analysis Method: EPA 9320

QC Batch 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	

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**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	

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## QUALIFIERS

Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

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### 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		

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



Sample Condition Upon Receipt

WO#: 92492815

Client Name: G-A Power



Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking #: 812193944915 / 812193944890 / 812193944926

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: 4/5/3/3/25 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8/27/2018

Temp should be above freezing to 6°C

Comments:

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



Document Name:  
Bottle Identification Form (BIF)  
Document No.:  
F-CAR-CS-043-Rev.00

Document Issued: March 14, 2019  
Page 1 of 1  
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) (C-)	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) (C-)	BP3H-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	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)-VPH/Gas 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)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	VS6U-20 mL Scintillation vials (N/A)	
	1																											
	2																											
	3																											
	4																											
	5																											
	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	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 C  
Out of hold, incorrect preservative, out of temp, incorrect containers.



Document Name:  
Bottle Identification Form (BIF)  
Document No.:  
F-CAR-CS-043-Rev.00

Document issued: March 14, 2019  
Page 1 of 1  
Issuing Authority:  
Pace Carolinas Quality Office

Project #

**WO# : 92492815**

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/BO15 (water) DOC, LLHg

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

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	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) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	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)-S035 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)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG00U-100 mL Amber Unpreserved vials (N/A)	VS00U-20 mL Scintillation vials (N/A)	
	1																											
	2																											
	3																											
	4																											
	5																											
	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	To

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









## CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

**Client Information:**

Company Name: Georgia Power  
 Address: 1075 B g Shanty Road  
 City: Inveraw GA 30144  
 Contact: Rhonda Quirin  
 Phone: (770) 421-3516  
 Email: rhonda.quirin@gpcc.com  
 Project Name: Standard

Section B

**Required Project Information:**

Report To: Rhonda Quirin  
 Copy To:  
 Purchase Order #:  
 Project Name: Mirell App IV Scan  
 Project #: 10K34

Section C

**Invoice Information:**

Company Name:  
 Address:  
 Project Manager: Kevin Henning@fastanalytical.com  
 Project Profile #: 10K34

Page: 1 Of 1

Regulatory Agency

State / Location

GA

#	SAMPLE ID	Matrix	CODES	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-CRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)	PH
						START DATE TIME	END DATE TIME							
1	EB-01	Drinking Water DWC	DWC	WG	WG	8/24/20	1445	4	1	3			4.2442815	
2	PZ-32	Drinking Water DWC	DWC	WG	WG	8/27/20	1455	4	1	3			PH = 7.53	
3	PZ-31	Drinking Water DWC	DWC	WG	WG	8/27/20	1615	4	1	3			PH = 7.14	
4	PZ-1D	Drinking Water DWC	DWC	WG	WG	8/26/20	1605	4	1	3			PH = 7.49	
5														
6														
7														
8														
9														
10														
11														
12														

ADDITIONAL COMMENTS

REMOVED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

SAMPLE CONDITIONS

Daniel Howard / Wood 8/26/20 1800

Charles Fink 8/27/20 0949 3.3 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)



# 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
	Count Date:	LCS55957
Spike I.D.:	9/10/2020	
Decay Corrected Spike Concentration (pCi/mL):	19-033	
Volume Used (mL):	24.045	
Aliquot Volume (L, g, F):	0.10	
Target Conc. (pCi/L, g, F):	0.506	
Uncertainty (Calculated):	4.751	
Result (pCi/L, g, F):	3.947	
LCSD/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	Enter Duplicate sample IDs if other than LCS/LCSD in the space below:
Sample I.D.:	92492844001
Duplicate Sample I.D.:	92492844001DUP
Sample Result (pCi/L, g, F):	0.135
Sample Duplicate Result (pCi/L, g, F):	0.203
Sample Duplicate Counting Uncertainty (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
Duplicate RPD:	88.26%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***
% RPD Limit:	25%

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

Comments:

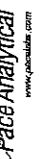
\*\*\*Data must be re-checked due to unacceptable precision. N/A  
LAM 9/10/2020

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 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.:
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:

LAM 9/10/2020  
On 9-10-20

# 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	LCS/D (Y or N)?		N
	LCS55957	LCS/D55957	
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	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	92492815015
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
Duplicate RPD:	303.91%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***
% RPD Limit:	25%

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

Comments:

~~Batch must be re-sampled due to unacceptable precision~~ N/A

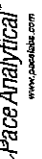
LAM 9/10/2020

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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):		
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.:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):
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:

LAM 9/10/2020  
Total Alpha Raqium (R104-3 11Feb2019).xls  
Du 9.10.20

# Quality Control Sample Performance Assessment



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
		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	
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	Enter Duplicate sample IDs if other than LCSD/LCSD in the space below.
Sample I.D.:	92492559006
Duplicate Sample I.D.:	92492559006DUP
Sample Result (pCi/L, g, F):	0.288
Sample Duplicate Result (pCi/L, g, F):	0.138
Sample Duplicate Result Counting Uncertainty (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
Duplicate RPD:	128.44%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail
% RPD Limit:	25%

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

Comments:

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

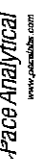
\*\*\*Batch must be re-prepped due to unacceptable precision: N/A Wm 9/11/2020

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 Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
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: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: 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:

Wm 9/11/2020

# Quality Control Sample Performance Assessment



**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	LCS (Y or N)?	
	LCS55959	N
Count Date:	9/11/2020	LCS055959
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
Duplicate Sample I.D.:	92492559007/DUP
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
Duplicate RPD:	13.77%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

## 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.

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:		
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):		
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:	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
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:	

AM9/11/2020

# Quality Control Sample Performance Assessment



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
MB 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	
Count Date:	LCSD (Y or N)?
9/11/2020	LCSD55952
Spike I.D.:	N
Decay Corrected Spike Concentration (pCi/mL):	LCSD55952
Volume Used (mL):	20.030
Aliquot Volume (L, B, F):	38.447
Target Conc. (pCi/L, g, F):	0.10
Uncertainty (Calculated):	0.820
Result (pCi/L, g, F):	4.886
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.230
Numerical Performance Indicator:	4.304
Status vs Numerical Indicator:	1.066
Percent Recovery:	-0.69
Upper % Recovery Limits:	91.85%
Lower % Recovery Limits:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	92492815015
Duplicate Sample I.D.:	92492815015DUP
Sample Result (pCi/L, g, F):	0.361
Sample Duplicate Result (pCi/L, g, F):	0.361
Sample Duplicate Result 2 Sigma CSU (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
Duplicate RPD:	117.833%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Fail**
% RPD Limit:	36%

Sample Matrix Spike Control Assessment	
Sample Collection Date:	MS/MSD 1
Sample I.D.:	MS/MSD 2
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, B, 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:	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result:	
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 MS I.D.:	Sample MSD I.D.
Sample Matrix Spike Result:	Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs RPD:
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.

*Handwritten signature/initials*

JJ  
9-14-20



# Quality Control Sample Performance Assessment



Test: Ra-228  
Analyst: VAL  
Date: 9/16/2020  
Worklist: 55954  
Matrix: WT

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

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)?	
	LCSD55954	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:	80%	80%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCSD55954
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:		
Sample 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:
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
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:

*Handwritten signature/initials*

*Handwritten signature*

October 22, 2020

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 Co. Services  
Rhonda Quinn, WOOD E&I  
Greg Wrenn, WOOD E&I



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MITCHELL CCR

Pace Project No.: 92499073

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### **Pace Analytical Services Charlotte**

9800 Kinsey 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

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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
Massachusetts Certification #: M-NC030  
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40  
South Carolina Certification #: 99030001  
Virginia/VELAP Certification #: 460222

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### **Pace Analytical Services Peachtree Corners**

110 Technology Pkwy, Peachtree Corners, GA 30092  
Florida DOH Certification #: E87315  
Georgia DW Inorganics Certification #: 812  
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381  
South Carolina Certification #: 98011001  
Virginia Certification #: 460204

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## REPORT OF LABORATORY ANALYSIS

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## 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

## REPORT OF LABORATORY ANALYSIS

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### 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 2450C-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 2450C-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 2450C-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 2450C-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 2450C-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 2450C-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 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073008	PZ-23A	EPA 6010D	KH	1
		EPA 6020B	CW1	10

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: MITCHELL CCR  
Pace Project No.: 92499073

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92499073009	PZ-16	EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
92499073010	PZ-25	SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
92499073011	FD-02	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2450C-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 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
92499073013	PZ-15	EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	10
92499073014	PZ-19	EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
92499073015	FD-01	SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: MITCHELL CCR

Pace Project No.: 92499073

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92499073016	PZ-17	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
92499073017	PZ-18	EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
92499073018	PZ-33	EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: MITCHELL CCR

Pace Project No.: 92499073

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92499073001</b>	<b>EB-01</b>					
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	
<b>92499073002</b>	<b>PZ-2D</b>					
	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 2450C-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	
<b>92499073004</b>	<b>PZ-32</b>					
	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 2450C-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	
<b>92499073005</b>	<b>PZ-1D</b>					
	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 2450C-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	
<b>92499073006</b>	<b>PZ-31</b>					
	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	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92499073006</b>	<b>PZ-31</b>					
	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 2450C-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	
<b>92499073007</b>	<b>PZ-14</b>					
	Performed by	CUSTOME			10/08/20 16:12	
		R				
	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 2450C-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	
<b>92499073008</b>	<b>PZ-23A</b>					
	Performed by	CUSTOME			10/08/20 16:12	
		R				
	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 2450C-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	
<b>92499073009</b>	<b>PZ-16</b>					
	Performed by	CUSTOME			10/08/20 16:12	
		R				
	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 2450C-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	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: MITCHELL CCR

Pace Project No.: 92499073

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92499073009</b>	<b>PZ-16</b>					
EPA 300.0 Rev 2.1 1993	Sulfate	42.4	mg/L	1.0	10/09/20 22:32	
<b>92499073010</b>	<b>PZ-25</b>					
	Performed by	CUSTOMER			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 2450C-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	
<b>92499073011</b>	<b>FD-02</b>					
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 2450C-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	
<b>92499073012</b>	<b>PZ-7D</b>					
	Performed by	CUSTOMER			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 2450C-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	
<b>92499073013</b>	<b>PZ-15</b>					
	Performed by	CUSTOMER			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

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### SUMMARY OF DETECTION

Project: MITCHELL CCR  
Pace Project No.: 92499073

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92499073013</b>	<b>PZ-15</b>					
EPA 6020B	Thallium	0.00022J	mg/L	0.0010	10/12/20 19:01	
SM 2450C-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	
<b>92499073014</b>	<b>PZ-19</b>					
	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 2450C-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	
<b>92499073015</b>	<b>FD-01</b>					
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 2450C-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	
<b>92499073016</b>	<b>PZ-17</b>					
	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 2450C-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	

### REPORT OF LABORATORY ANALYSIS

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**SUMMARY OF DETECTION**

Project: MITCHELL CCR

Pace Project No.: 92499073

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92499073017</b>	<b>PZ-18</b>					
	Performed by	CUSTOME			10/08/20 16:12	
		R				
	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 2450C-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	
<b>92499073018</b>	<b>PZ-33</b>					
	Performed by	CUSTOME			10/08/20 16:12	
		R				
	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 2450C-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	

**REPORT OF LABORATORY ANALYSIS**

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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
<b>6010D ATL ICP</b>		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	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	<b>0.00048J</b>	mg/L	0.0030	0.00028	1	10/07/20 15:28	10/07/20 20:46	7440-36-0	
Barium	<b>0.00079J</b>	mg/L	0.010	0.00071	1	10/07/20 15:28	10/07/20 20:46	7440-39-3	
Boron	<b>0.0087J</b>	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	
<b>7470 Mercury</b>		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	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/07/20 14:57		
<b>300.0 IC Anions 28 Days</b>		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	

### REPORT OF LABORATORY ANALYSIS

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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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		10/08/20 16:12		
pH	<b>8.72</b>	Std. Units			1		10/08/20 16:12		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>22.7</b>	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 21:57	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	<b>0.0013J</b>	mg/L	0.0030	0.00028	1	10/07/20 15:28	10/07/20 20:52	7440-36-0	
Barium	<b>0.0039J</b>	mg/L	0.010	0.00071	1	10/07/20 15:28	10/07/20 20:52	7440-39-3	
Boron	<b>0.018J</b>	mg/L	0.10	0.0052	1	10/07/20 15:28	10/07/20 20:52	7440-42-8	
Chromium	<b>0.0065J</b>	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	<b>0.00099J</b>	mg/L	0.030	0.00081	1	10/07/20 15:28	10/07/20 20:52	7439-93-2	
Molybdenum	<b>0.00069J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>81.0</b>	mg/L	10.0	10.0	1		10/07/20 14:57		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>2.3</b>	mg/L	1.0	0.60	1		10/09/20 18:14	16887-00-6	
Fluoride	<b>0.073J</b>	mg/L	0.10	0.050	1		10/09/20 18:14	16984-48-8	
Sulfate	<b>3.1</b>	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	
<b>6010D ATL ICP</b>		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		
<b>6020 MET ICPMS</b>		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		
<b>7470 Mercury</b>		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		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/07/20 14:57			
<b>300.0 IC Anions 28 Days</b>		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		

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### ANALYTICAL RESULTS

Project: MITCHELL CCR  
Pace Project No.: 92499073

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: PZ-32</b>									
<b>Lab ID: 92499073004</b>									
Collected: 10/06/20 15:00 Received: 10/07/20 09:37 Matrix: Water									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		10/08/20 16:12		
pH	<b>7.27</b>	Std. Units			1		10/08/20 16:12		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>62.8</b>	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:14	7440-70-2	
<b>6020 MET ICPMS</b>									
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	<b>0.015</b>	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 16:50	7440-39-3	
Boron	<b>0.015J</b>	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 16:50	7440-42-8	
Chromium	<b>0.00072J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>169</b>	mg/L	10.0	10.0	1		10/07/20 14:57		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>2.3</b>	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	<b>1.9</b>	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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		10/08/20 16:12		
pH	<b>7.35</b>	Std. Units			1		10/08/20 16:12		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>50.5</b>	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:19	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	<b>0.0021J</b>	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 17:39	7440-36-0	B
Barium	<b>0.015</b>	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 17:39	7440-39-3	
Boron	<b>0.015J</b>	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 17:39	7440-42-8	
Chromium	<b>0.0021J</b>	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	<b>0.000066J</b>	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	<b>0.00090J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>153</b>	mg/L	10.0	10.0	1		10/07/20 14:57		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>3.0</b>	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	<b>2.4</b>	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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		10/08/20 16:12		
pH	<b>7.01</b>	Std. Units			1		10/08/20 16:12		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>98.8</b>	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:23	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	<b>0.00045J</b>	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 17:45	7440-36-0	B
Barium	<b>0.0075J</b>	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 17:45	7440-39-3	
Boron	<b>0.011J</b>	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 17:45	7440-42-8	
Chromium	<b>0.0013J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>254</b>	mg/L	10.0	10.0	1		10/07/20 14:58		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>3.4</b>	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	<b>0.98J</b>	mg/L	1.0	0.50	1		10/09/20 20:44	14808-79-8	

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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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		10/08/20 16:12		
pH	<b>7.01</b>	Std. Units			1		10/08/20 16:12		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>111</b>	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:27	7440-70-2	
<b>6020 MET ICPMS</b>									
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	<b>0.016</b>	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 17:51	7440-39-3	
Boron	<b>0.026J</b>	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 17:51	7440-42-8	
Chromium	<b>0.00098J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>241</b>	mg/L	10.0	10.0	1		10/07/20 14:58		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>4.4</b>	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	<b>11.0</b>	mg/L	1.0	0.50	1		10/09/20 20:59	14808-79-8	

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### 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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		10/08/20 16:12		
pH	<b>6.78</b>	Std. Units			1		10/08/20 16:12		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>144</b>	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:32	7440-70-2	
<b>6020 MET ICPMS</b>									
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	<b>0.037</b>	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 17:56	7440-39-3	
Boron	<b>0.16</b>	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 17:56	7440-42-8	
Chromium	<b>0.0015J</b>	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 17:56	7440-47-3	
Cobalt	<b>0.00067J</b>	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 17:56	7440-48-4	
Lead	<b>0.000047J</b>	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 17:56	7439-92-1	
Lithium	<b>0.00097J</b>	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	<b>0.0027J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>462</b>	mg/L	10.0	10.0	1		10/07/20 14:58		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>7.0</b>	mg/L	1.0	0.60	1		10/09/20 21:15	16887-00-6	
Fluoride	<b>0.052J</b>	mg/L	0.10	0.050	1		10/09/20 21:15	16984-48-8	
Sulfate	<b>71.2</b>	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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		10/08/20 16:12		
pH	<b>7.24</b>	Std. Units			1		10/08/20 16:12		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>84.0</b>	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:36	7440-70-2	
<b>6020 MET ICPMS</b>									
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	<b>0.034</b>	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 18:02	7440-39-3	
Boron	<b>0.19</b>	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 18:02	7440-42-8	
Chromium	<b>0.0011J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>261</b>	mg/L	10.0	10.0	1		10/07/20 14:58		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>6.4</b>	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	<b>42.4</b>	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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		10/08/20 16:12		
pH	<b>6.95</b>	Std. Units			1		10/08/20 16:12		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>84.2</b>	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 19:48	7440-70-2	
<b>6020 MET ICPMS</b>									
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	<b>0.11</b>	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 18:44	7440-39-3	
Boron	<b>0.18</b>	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	<b>0.0014J</b>	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	<b>0.0063J</b>	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	<b>0.00027J</b>	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 18:44	7440-28-0	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>280</b>	mg/L	10.0	10.0	1		10/08/20 16:06		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>1.8</b>	mg/L	1.0	0.60	1		10/10/20 03:41	16887-00-6	
Fluoride	<b>0.13</b>	mg/L	0.10	0.050	1		10/10/20 03:41	16984-48-8	
Sulfate	<b>38.1</b>	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: <b>FD-02</b>		Lab ID: <b>92499073011</b>		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
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	<b>85.7</b>	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 19:52	7440-70-2	
<b>6020 MET ICPMS</b>		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	<b>0.11</b>	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 18:50	7440-39-3	
Boron	<b>0.19</b>	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	<b>0.0014J</b>	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	<b>0.0062J</b>	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	<b>0.00027J</b>	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 18:50	7440-28-0	
<b>7470 Mercury</b>		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	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	<b>288</b>	mg/L	10.0	10.0	1		10/08/20 16:06		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>1.8</b>	mg/L	1.0	0.60	1		10/10/20 04:27	16887-00-6	
Fluoride	<b>0.14</b>	mg/L	0.10	0.050	1		10/10/20 04:27	16984-48-8	
Sulfate	<b>38.3</b>	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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		10/08/20 16:12		
pH	<b>6.98</b>	Std. Units			1		10/08/20 16:12		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>109</b>	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 19:57	7440-70-2	
<b>6020 MET ICPMS</b>									
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	<b>0.0061J</b>	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 18:55	7440-39-3	
Boron	<b>0.20</b>	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 18:55	7440-42-8	
Chromium	<b>0.0014J</b>	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	<b>0.0023J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>334</b>	mg/L	10.0	10.0	1		10/08/20 16:06		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>3.9</b>	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	<b>48.9</b>	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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		10/08/20 16:12		
pH	<b>7.11</b>	Std. Units			1		10/08/20 16:12		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>93.5</b>	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:01	7440-70-2	
<b>6020 MET ICPMS</b>									
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	<b>0.049</b>	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 19:01	7440-39-3	
Boron	<b>0.19</b>	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	<b>0.0013J</b>	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	<b>0.00022J</b>	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 19:01	7440-28-0	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>336</b>	mg/L	10.0	10.0	1		10/08/20 16:06		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>6.6</b>	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	<b>80.7</b>	mg/L	1.0	0.50	1		10/10/20 04:58	14808-79-8	

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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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		10/08/20 16:12		
pH	<b>6.78</b>	Std. Units			1		10/08/20 16:12		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>144</b>	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:06	7440-70-2	
<b>6020 MET ICPMS</b>									
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	<b>0.054</b>	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 19:07	7440-39-3	
Boron	<b>0.52</b>	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	<b>0.000042J</b>	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 19:07	7439-92-1	
Lithium	<b>0.013J</b>	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 19:07	7439-93-2	
Molybdenum	<b>0.0019J</b>	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 19:07	7439-98-7	
Selenium	<b>0.0035J</b>	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 19:07	7782-49-2	
Thallium	<b>0.00070J</b>	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 19:07	7440-28-0	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>492</b>	mg/L	10.0	10.0	1		10/08/20 16:06		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>4.5</b>	mg/L	1.0	0.60	1		10/10/20 05:13	16887-00-6	
Fluoride	<b>0.064J</b>	mg/L	0.10	0.050	1		10/10/20 05:13	16984-48-8	
Sulfate	<b>83.3</b>	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
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	<b>138</b>	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:19	7440-70-2	
<b>6020 MET ICPMS</b>		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	<b>0.053</b>	mg/L	0.010	0.00071	1	10/12/20 15:15	10/13/20 17:15	7440-39-3	
Boron	<b>0.55</b>	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	<b>0.014J</b>	mg/L	0.030	0.00081	1	10/12/20 15:15	10/13/20 17:15	7439-93-2	
Molybdenum	<b>0.0019J</b>	mg/L	0.010	0.00069	1	10/12/20 15:15	10/13/20 17:15	7439-98-7	
Selenium	<b>0.0029J</b>	mg/L	0.010	0.0016	1	10/12/20 15:15	10/13/20 17:15	7782-49-2	
Thallium	<b>0.00068J</b>	mg/L	0.0010	0.00014	1	10/12/20 15:15	10/13/20 17:15	7440-28-0	
<b>7470 Mercury</b>		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	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	<b>496</b>	mg/L	10.0	10.0	1		10/08/20 16:07		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>4.5</b>	mg/L	1.0	0.60	1		10/10/20 05:29	16887-00-6	
Fluoride	<b>0.062J</b>	mg/L	0.10	0.050	1		10/10/20 05:29	16984-48-8	
Sulfate	<b>84.0</b>	mg/L	1.0	0.50	1		10/10/20 05:29	14808-79-8	

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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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		10/08/20 16:12		
pH	<b>7.04</b>	Std. Units			1		10/08/20 16:12		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>112</b>	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:24	7440-70-2	
<b>6020 MET ICPMS</b>									
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	<b>0.074</b>	mg/L	0.010	0.00071	1	10/12/20 15:15	10/13/20 17:21	7440-39-3	
Boron	<b>0.30</b>	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	<b>0.0029J</b>	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	<b>0.00022J</b>	mg/L	0.0010	0.00014	1	10/12/20 15:15	10/13/20 17:21	7440-28-0	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>392</b>	mg/L	10.0	10.0	1		10/08/20 16:07		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>5.7</b>	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	<b>89.1</b>	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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		10/08/20 16:12		
pH	<b>6.91</b>	Std. Units			1		10/08/20 16:12		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>129</b>	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:28	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	<b>0.0014J</b>	mg/L	0.0030	0.00028	1	10/12/20 15:15	10/13/20 17:44	7440-36-0	
Barium	<b>0.023</b>	mg/L	0.010	0.00071	1	10/12/20 15:15	10/13/20 17:44	7440-39-3	
Boron	<b>0.39</b>	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	<b>0.000042J</b>	mg/L	0.0050	0.000036	1	10/12/20 15:15	10/13/20 17:44	7439-92-1	
Lithium	<b>0.0030J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>425</b>	mg/L	10.0	10.0	1		10/08/20 16:07		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>5.0</b>	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	<b>87.3</b>	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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		10/08/20 16:12		
pH	<b>7.04</b>	Std. Units			1		10/08/20 16:12		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>94.7</b>	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:33	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	<b>0.00037J</b>	mg/L	0.0030	0.00028	1	10/12/20 15:15	10/13/20 17:49	7440-36-0	
Barium	<b>0.048</b>	mg/L	0.010	0.00071	1	10/12/20 15:15	10/13/20 17:49	7440-39-3	
Boron	<b>0.35</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>337</b>	mg/L	10.0	10.0	1		10/08/20 16:07		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>2.0</b>	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	<b>54.6</b>	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	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	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	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92499073002	Spike Conc.	Spike Conc.	Result							Result
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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### QUALITY CONTROL DATA

Project: MITCHELL CCR

Pace Project No.: 92499073

Parameter	Units	3027587		3027588		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92499073002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
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	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92499073004 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
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	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max	Qual	
			Spike Conc.	Spike Conc.							RPD		
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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92499073016 Result	Spike Conc.	Spike Conc.	Conc.								
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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### QUALITY CONTROL DATA

Project: MITCHELL CCR

Pace Project No.: 92499073

Parameter	Units	3032352		3032353		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92499073016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
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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### QUALITY CONTROL DATA

Project: MITCHELL CCR

Pace Project No.: 92499073

QC Batch:	572203	Analysis Method:	EPA 7470A
QC Batch 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	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92499650004 Result	Spike Conc.	Spike Conc.	Result						
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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### QUALITY CONTROL DATA

Project: MITCHELL CCR

Pace Project No.: 92499073

QC Batch: 571195 Analysis Method: SM 2450C-2011  
 QC Batch Method: SM 2450C-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

Analysis Method: SM 2450C-2011

QC Batch Method: SM 2450C-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 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: 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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92499192001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	38.6	50	50	50	87.6	87.9	98	99	90-110	0	10	
Fluoride	mg/L	0.57	2.5	2.5	2.5	3.0	3.0	98	99	90-110	1	10	
Sulfate	mg/L	309	50	50	50	353	353	87	87	90-110	0	10 M6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3028439 3028440

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92499349001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	8.6	50	50	50	57.4	57.1	98	97	90-110	1	10	
Fluoride	mg/L	0.34	2.5	2.5	2.5	2.7	2.7	96	96	90-110	0	10	
Sulfate	mg/L	18.9	50	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 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: 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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92499205001 Result	Spike Conc.	Spike Conc.	Conc.								
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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92498983001 Result	Spike Conc.	Spike Conc.	Conc.								
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 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: 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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92499810001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	10.2	50	50	50	62.9	62.6	105	105	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	2.6	101	103	90-110	2	10	
Sulfate	mg/L	5.4	50	50	50	56.9	57.3	103	104	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3031548 3031549

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

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## QUALIFIERS

Project: MITCHELL CCR

Pace Project No.: 92499073

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### 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.

## REPORT OF LABORATORY ANALYSIS

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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

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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
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 2450C-2011	571195		
92499073002	PZ-2D	SM 2450C-2011	571195		
92499073003	FB-01	SM 2450C-2011	571195		
92499073004	PZ-32	SM 2450C-2011	571195		
92499073005	PZ-1D	SM 2450C-2011	571195		
92499073006	PZ-31	SM 2450C-2011	571195		
92499073007	PZ-14	SM 2450C-2011	571195		
92499073008	PZ-23A	SM 2450C-2011	571195		
92499073009	PZ-16	SM 2450C-2011	571195		
92499073010	PZ-25	SM 2450C-2011	571887		
92499073011	FD-02	SM 2450C-2011	571887		
92499073012	PZ-7D	SM 2450C-2011	571887		
92499073013	PZ-15	SM 2450C-2011	571887		
92499073014	PZ-19	SM 2450C-2011	571887		
92499073015	FD-01	SM 2450C-2011	571887		
92499073016	PZ-17	SM 2450C-2011	571887		
92499073017	PZ-18	SM 2450C-2011	571887		
92499073018	PZ-33	SM 2450C-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

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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
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		

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Sample Condition Upon Receipt

Client Name: GA Power

WO#: 92499073



92499073



Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Otr  
Tracking #: \_\_\_\_\_

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 16.0    Biological Tissue is Frozen: Yes No  
Temp should be above freezing to 6°C    Comments: \_\_\_\_\_  
Date and initials of person examining contents: CO 10/17/20

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





# CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b>		<b>Section B</b>	
Required Client Information:		Required Project Information:	
Company: Georgia Power - Coal Combustion Residuals	Address: 2400 Manner Road	Report To: Jodi Abraham	Copy To: Wood PLC
Atlanta, GA 30339		Purchase Order #: SCS10382775	Project Name: Plant Mitchell CCR
Email: jbraham@scsllt.com	Phone: (404)506-7239	Project #: 6123-16-0730-2002	Requested Due Date: 5/23/2007
Invoice Information:		Requested Analytical Filtered (Y/N)	
Federal: Are Bill # 8107-9699-8686 = 8107-9699-0006		Residual Chlorine (Y/N)	
State: 8107-9699-8697 = 8107-9699-0007		Final Photof Sample	
Local: 8107-9699-8701 = 8107-9699-0008		A244073	
City: Atlanta		N/A } Coolers #1002	
State: GA		8.72 } N/A } Coolers #005	
Country: USA		7.27 } Coolers #004	
		7.35 } Coolers #005	
		7.01 } Coolers #2006	
		7.01 } Coolers #007	
		6.78 } Coolers #008	
		7.24 } Coolers #3005	

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Y/N	Analyses Test	Requested Analytical Filtered (Y/N)	Residual Chlorine (Y/N)	TEMP in C	SAMPLE CONDITIONS			
				START DATE TIME	END DATE TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3						Methanol	Other	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)
1	EB-01			10/6/06	10:45	52	3											Y	Y	Y		
2	P2-2D			10/6/06	12:20	52	3											Y	Y	Y		
3	FB-01			10/6/06	12:55	52	3											Y	Y	Y		
4	P2-32			10/6/06	15:00	52	3											Y	Y	Y		
6	P2-1D			10/6/06	12:00	52	3											Y	Y	Y		
8	P2-31			10/6/06	11:55	52	3											Y	Y	Y		
7	P2-14			10/6/06	11:30	52	3											Y	Y	Y		
8	P2-23A			10/6/06	14:25	52	3											Y	Y	Y		
9	P2-16			10/6/06	16:15	52	3											Y	Y	Y		
10																						
11																						
12																						

APPROVAL, COMMENTS		RELEASER BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
APPROVAL, COMMENTS: Approved for metals: Barium, Cadmium, Chromium, Lead, Mercury, Manganese, Nickel, Silver, Vanadium, Zinc		Terrell Parker et al		10/6/06		17:00		Terrell Parker et al		10/11/06		09:37		6.0 Y Y Y	
APPROVAL, COMMENTS: C.I.E., Jay for ANOVA															

SIGNATURE OF SAMPLER: Terrell Parker et al		DATE SIGNED: 10-6-06	
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.

### Section A

#### Required Client Information:

Company: Georgia Power - Coal Combustion Residuals  
 Address: 2480 Maner Road  
 Atlanta, GA 30339  
 Email: [jabraham@southernco.com](mailto: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](mailto:SCSInvoices@southernco.com)  
 Company Name:  
 Address:  
 Pace Quote:  
 Pace Project Manager: [betsy.mcdaniel@pacelabs.com](mailto:betsy.mcdaniel@pacelabs.com)  
 Pace Profile #: 333.1.2

Page: 1 Of 1

Regulatory Agency  
 GA EPA  
 State / Location  
 GA

ITEM #	MATRIX	CODE	COLLECTED		SAMPLER TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	PRESERVATIVES							ANALYSES TEST	Y/N	REQUESTED ANALYSIS FILTERED (Y/N)		RESIDUAL CHLORINE (Y/N)	SAMPLE CONDITIONS
			START DATE	END DATE				H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other			Radium 226/228	App. III & App. IV Metals		
1	Groundwater	GW	10/17/20	09:50	G	GW	5	2	3										Final Sample PH	
2		GW	10/17/20	~	G	GW	5	2	3										6.95	
3		GW	10/17/20	12:30	G	GW	5	2	3										6.95	
4		GW	10/17/20	04:25	G	GW	5	2	3										6.98	
5		GW	10/17/20	05:58	G	GW	5	2	3										7.11	
6		GW	10/17/20	~	G	GW	5	2	3										6.78	
7		GW	10/17/20	10:35	G	GW	5	2	3										6.78 EXTENDED ANALYSIS FOR GROUNDWATER	
8		GW	10/17/20	12:05	G	GW	5	2	3										7.04	
9		GW	10/17/20	14:28	G	GW	7	2	5										6.91	
10																			7.04	
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	Samples	Inhibit (Y/N)
APP 11/4 METALS: B, Cd, Sb, Pb, Cu, Co, Ph, Li, Hg, Mn, Se, Tl, Arsenic, Cl, F, PO4	Jessie Whitfield by Southern Power	10-7-20	16:40	Renee Parker	10-7-20									

November 02, 2020

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 Co. Services  
Rhonda Quinn, WOOD E&I  
Greg Wrenn, WOOD E&I



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MITCHELL CCR RADS  
Pace Project No.: 92499068

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### **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

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## REPORT OF LABORATORY ANALYSIS

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### 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

### REPORT OF LABORATORY ANALYSIS

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### 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

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: MITCHELL CCR RADS

Pace Project No.: 92499068

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

### 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
<b>92499068001</b>	<b>EB-01</b>					
EPA 9315	Radium-226	0.0778 ± 0.159 (0.369)	pCi/L		10/16/20 06:56	
EPA 9320	Radium-228	C:84% T:NA 1.45 ± 0.589 (0.934)	pCi/L		10/21/20 14:50	
Total Radium Calculation	Total Radium	C:67% T:77% 1.53 ± 0.748 (1.30)	pCi/L		10/23/20 10:21	
<b>92499068002</b>	<b>PZ-2D</b>					
EPA 9315	Radium-226	0.0659 ± 0.161 (0.390)	pCi/L		10/16/20 06:56	
EPA 9320	Radium-228	C:81% T:NA 0.863 ± 0.660 (1.31)	pCi/L		10/21/20 14:50	
Total Radium Calculation	Total Radium	C:52% T:80% 0.929 ± 0.821 (1.70)	pCi/L		10/23/20 10:21	
<b>92499068003</b>	<b>FB-01</b>					
EPA 9315	Radium-226	-0.0382 ± 0.0986 (0.364)	pCi/L		10/16/20 06:56	
EPA 9320	Radium-228	C:90% T:NA 0.783 ± 0.590 (1.17)	pCi/L		10/21/20 14:51	
Total Radium Calculation	Total Radium	C:66% T:70% 0.783 ± 0.689 (1.53)	pCi/L		10/23/20 10:21	
<b>92499068004</b>	<b>PZ-32</b>					
EPA 9315	Radium-226	0.0478 ± 0.165 (0.425)	pCi/L		10/16/20 08:35	
EPA 9320	Radium-228	C:82% T:NA 0.323 ± 0.416 (0.886)	pCi/L		10/21/20 14:51	
Total Radium Calculation	Total Radium	C:72% T:84% 0.371 ± 0.581 (1.31)	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
<b>92499068005</b>	<b>PZ-1D</b>					
EPA 9315	Radium-226	0.278 ± 0.234 (0.380)	pCi/L		10/16/20 08:35	
EPA 9320	Radium-228	C:81% T:NA 0.718 ± 0.482 (0.921)	pCi/L		10/21/20 14:51	
Total Radium Calculation	Total Radium	C:64% T:81% 0.996 ± 0.716 (1.30)	pCi/L		10/23/20 10:21	
<b>92499068006</b>	<b>PZ-31</b>					
EPA 9315	Radium-226	0.0313 ± 0.149 (0.403)	pCi/L		10/16/20 08:35	
EPA 9320	Radium-228	C:78% T:NA 0.245 ± 0.379 (0.820)	pCi/L		10/21/20 14:51	
Total Radium Calculation	Total Radium	C:71% T:86% 0.276 ± 0.528 (1.22)	pCi/L		10/23/20 10:21	
<b>92499068007</b>	<b>PZ-14</b>					
EPA 9315	Radium-226	0.220 ± 0.226 (0.426)	pCi/L		10/16/20 08:36	
EPA 9320	Radium-228	C:85% T:NA 0.0452 ± 0.588 (1.35)	pCi/L		10/21/20 14:51	
Total Radium Calculation	Total Radium	C:59% T:71% 0.265 ± 0.814 (1.78)	pCi/L		10/23/20 10:21	
<b>92499068008</b>	<b>PZ-23A</b>					
EPA 9315	Radium-226	0.644 ± 0.354 (0.495)	pCi/L		10/16/20 08:37	
EPA 9320	Radium-228	C:83% T:NA 0.596 ± 0.456 (0.904)	pCi/L		10/21/20 14:51	
Total Radium Calculation	Total Radium	C:72% T:82% 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
<b>92499068009</b>	<b>PZ-16</b>					
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	
<b>92499068010</b>	<b>PZ-25</b>					
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	
<b>92499068011</b>	<b>FD-02</b>					
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	
<b>92499068012</b>	<b>PZ-7D</b>					
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
<b>92499068013</b>	<b>PZ-15</b>					
EPA 9315	Radium-226	0.251 ± 0.152 (0.252)	pCi/L		10/19/20 18:12	
EPA 9320	Radium-228	C:84% T:NA 0.967 ± 0.548 (1.00)	pCi/L		10/27/20 15:01	
Total Radium Calculation	Total Radium	C:66% T:81% 1.22 ± 0.700 (1.25)	pCi/L		10/28/20 15:13	
<b>92499068014</b>	<b>PZ-19</b>					
EPA 9315	Radium-226	0.517 ± 0.178 (0.226)	pCi/L		10/19/20 18:13	
EPA 9320	Radium-228	C:87% T:NA 0.376 ± 0.326 (0.655)	pCi/L		10/30/20 10:54	
Total Radium Calculation	Total Radium	C:84% T:80% 0.893 ± 0.504 (0.881)	pCi/L		11/01/20 12:49	
<b>92499068015</b>	<b>FD-01</b>					
EPA 9315	Radium-226	0.595 ± 0.204 (0.280)	pCi/L		10/19/20 18:14	
EPA 9320	Radium-228	C:91% T:NA 0.492 ± 0.345 (0.655)	pCi/L		10/27/20 14:59	
Total Radium Calculation	Total Radium	C:70% T:88% 1.09 ± 0.549 (0.935)	pCi/L		10/28/20 15:13	
<b>92499068016</b>	<b>PZ-17</b>					
EPA 9315	Radium-226	0.374 ± 0.149 (0.204)	pCi/L		10/19/20 18:15	
EPA 9320	Radium-228	C:90% T:NA 0.0584 ± 0.354 (0.818)	pCi/L		10/27/20 14:59	
Total Radium Calculation	Total Radium	C:65% T:82% 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
<b>92499068017</b>	<b>PZ-18</b>					
EPA 9315	Radium-226	0.365 ± 0.182 (0.292)	pCi/L		10/19/20 18:15	
EPA 9320	Radium-228	C:81% T:NA -0.0286 ± 0.365 (0.861)	pCi/L		10/27/20 14:59	
Total Radium Calculation	Total Radium	C:68% T:81% 0.365 ± 0.547 (1.15)	pCi/L		10/28/20 15:13	
<b>92499068018</b>	<b>PZ-33</b>					
EPA 9315	Radium-226	0.442 ± 0.169 (0.233)	pCi/L		10/19/20 17:55	
EPA 9320	Radium-228	C:86% T:NA -0.0127 ± 0.311 (0.730)	pCi/L		10/27/20 11:52	
Total Radium Calculation	Total Radium	C:73% T:83% 0.442 ± 0.480 (0.963)	pCi/L		10/28/20 15:13	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: EB-01</b> <b>Lab ID: 92499068001</b> Collected: 10/06/20 10:45      Received: 10/07/20 09:37      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0778 ± 0.159 (0.369)</b> <b>C:84% T:NA</b>	pCi/L	10/16/20 06:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.45 ± 0.589 (0.934)</b> <b>C:67% T:77%</b>	pCi/L	10/21/20 14:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.53 ± 0.748 (1.30)</b>	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

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: PZ-2D</b> <b>Lab ID: 92499068002</b> Collected: 10/06/20 12:20      Received: 10/07/20 09:37      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0659 ± 0.161 (0.390)</b> <b>C:81% T:NA</b>	pCi/L	10/16/20 06:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.863 ± 0.660 (1.31)</b> <b>C:52% T:80%</b>	pCi/L	10/21/20 14:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.929 ± 0.821 (1.70)</b>	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	<b>-0.0382 ± 0.0986 (0.364)</b> <b>C:90% T:NA</b>	pCi/L	10/16/20 06:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.783 ± 0.590 (1.17)</b> <b>C:66% T:70%</b>	pCi/L	10/21/20 14:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.783 ± 0.689 (1.53)</b>	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	<b>0.0478 ± 0.165 (0.425)</b> <b>C:82% T:NA</b>	pCi/L	10/16/20 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.323 ± 0.416 (0.886)</b> <b>C:72% T:84%</b>	pCi/L	10/21/20 14:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.371 ± 0.581 (1.31)</b>	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-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	<b>0.278 ± 0.234 (0.380)</b> <b>C:81% T:NA</b>	pCi/L	10/16/20 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.718 ± 0.482 (0.921)</b> <b>C:64% T:81%</b>	pCi/L	10/21/20 14:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.996 ± 0.716 (1.30)</b>	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	<b>0.0313 ± 0.149 (0.403)</b> <b>C:78% T:NA</b>	pCi/L	10/16/20 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.245 ± 0.379 (0.820)</b> <b>C:71% T:86%</b>	pCi/L	10/21/20 14:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.276 ± 0.528 (1.22)</b>	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	<b>0.220 ± 0.226 (0.426)</b> <b>C:85% T:NA</b>	pCi/L	10/16/20 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0452 ± 0.588 (1.35)</b> <b>C:59% T:71%</b>	pCi/L	10/21/20 14:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.265 ± 0.814 (1.78)</b>	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-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	<b>0.644 ± 0.354 (0.495)</b> <b>C:83% T:NA</b>	pCi/L	10/16/20 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.596 ± 0.456 (0.904)</b> <b>C:72% T:82%</b>	pCi/L	10/21/20 14:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.24 ± 0.810 (1.40)</b>	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-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	<b>0.161 ± 0.191 (0.363)</b> <b>C:80% T:NA</b>	pCi/L	10/16/20 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.958 ± 0.477 (0.832)</b> <b>C:70% T:82%</b>	pCi/L	10/21/20 14:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.12 ± 0.668 (1.20)</b>	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	<b>0.439 ± 0.164 (0.222)</b> <b>C:91% T:NA</b>	pCi/L	10/19/20 18:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.568 ± 0.418 (0.818)</b> <b>C:70% T:89%</b>	pCi/L	10/27/20 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.01 ± 0.582 (1.04)</b>	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

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: FD-02</b> <b>Lab ID: 92499068011</b> Collected: 10/07/20 00:00      Received: 10/08/20 09:40      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.376 ± 0.148 (0.202)</b> <b>C:89% T:NA</b>	pCi/L	10/19/20 18:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.584 ± 0.506 (1.03)</b> <b>C:67% T:82%</b>	pCi/L	10/27/20 15:00	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.960 ± 0.654 (1.23)</b>	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-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	<b>0.0454 ± 0.112 (0.226)</b> <b>C:91% T:NA</b>	pCi/L	10/19/20 18:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.187 ± 0.505 (1.13)</b> <b>C:64% T:79%</b>	pCi/L	10/27/20 15:00	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.232 ± 0.617 (1.36)</b>	pCi/L	10/28/20 15:13	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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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	<b>0.251 ± 0.152 (0.252)</b> <b>C:84% T:NA</b>	pCi/L	10/19/20 18:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.967 ± 0.548 (1.00)</b> <b>C:66% T:81%</b>	pCi/L	10/27/20 15:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.22 ± 0.700 (1.25)</b>	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-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	<b>0.517 ± 0.178 (0.226)</b> <b>C:87% T:NA</b>	pCi/L	10/19/20 18:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.376 ± 0.326 (0.655)</b> <b>C:84% T:80%</b>	pCi/L	10/30/20 10:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.893 ± 0.504 (0.881)</b>	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	<b>0.595 ± 0.204 (0.280)</b> <b>C:91% T:NA</b>	pCi/L	10/19/20 18:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.492 ± 0.345 (0.655)</b> <b>C:70% T:88%</b>	pCi/L	10/27/20 14:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.09 ± 0.549 (0.935)</b>	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	<b>0.374 ± 0.149 (0.204)</b> <b>C:90% T:NA</b>	pCi/L	10/19/20 18:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0584 ± 0.354 (0.818)</b> <b>C:65% T:82%</b>	pCi/L	10/27/20 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.432 ± 0.503 (1.02)</b>	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-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	<b>0.365 ± 0.182 (0.292)</b> <b>C:81% T:NA</b>	pCi/L	10/19/20 18:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.0286 ± 0.365 (0.861)</b> <b>C:68% T:81%</b>	pCi/L	10/27/20 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.365 ± 0.547 (1.15)</b>	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	<b>0.442 ± 0.169 (0.233)</b> <b>C:86% T:NA</b>	pCi/L	10/19/20 17:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.0127 ± 0.311 (0.730)</b> <b>C:73% T:83%</b>	pCi/L	10/27/20 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.442 ± 0.480 (0.963)</b>	pCi/L	10/28/20 15:13	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MITCHELL CCR RADS

Pace Project No.: 92499068

QC Batch: 418036

Analysis Method: EPA 9315

QC Batch 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	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MITCHELL CCR RADS

Pace Project No.: 92499068

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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

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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	

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**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

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QC Batch:	418553	Analysis Method:	EPA 9320
QC Batch 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

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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	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MITCHELL CCR RADS

Pace Project No.: 92499068

QC Batch: 418033

Analysis Method: EPA 9315

QC Batch 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	

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## QUALIFIERS

Project: MITCHELL CCR RADS

Pace Project No.: 92499068

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### 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.

## REPORT OF LABORATORY ANALYSIS

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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
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		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

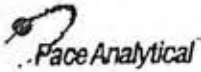
Project: MITCHELL CCR RADS

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		

### REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: GA Power

WO#: 92499068



Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other  
Tracking #: \_\_\_\_\_

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 1000 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

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



Document Name:  
Bottle Identification Form (BIF)  
Document No.:  
F-CAR-CS-043-Rev.00

Document issued: March 14, 2019  
Page 1 of 1  
Issuing Authority:  
Pace Carolinas Quality Office

Project #

WO#: 92499068

PM: KLH1

Due Date: 10/28/20

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/BO15 (water) DOC, LLHg

Bottom half of box is to list number of bottle

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	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) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFLU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(063A)-250 mL Amber NH4Cl (N/A)(C-)	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 Tit (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)	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																											
	2																											
	3																											
	4																											
	5																											
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	11																											
	12																											

RADs

pH Adjustment Log for Preserved Samples

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

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





## Quality Control Sample Performance Assessment

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

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

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
		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%	

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.:	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	
Duplicate RPD:	11.23%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% 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:

*Handwritten signature and date: LAL 10/16/2020*

*Handwritten date: 10/16/2020*



## Quality Control Sample Performance Assessment

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

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

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%	

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.:	92498068014	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
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%	

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:

*LAL*  
*10/16/2020*

*NAM 10/16/2020*



## Quality Control Sample Performance Assessment

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
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)?	
	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%

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.:	LCS56679	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCSD56679	
Sample Result (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%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
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:

*OK 10/16/2020*

*LAM 10/16/2020*





### Quality Control Sample Performance Assessment

Test: Ra-228  
Analyst: LAL  
Date: 10/19/2020  
Worklist: 56785  
Matrix: DW

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

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)?	
	LCS56785	Y
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%

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.:	LCS56785	Enter Duplicate
Duplicate Sample I.D.	LCS56785	sample IDs if
Sample Result (pCi/L, g, F):	4.258	other than
Sample Result Counting Uncertainty (pCi/L, g, F):	0.347	LCS/LCSD in
Sample Duplicate Result (pCi/L, g, F):	4.127	the space below.
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%	

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:

*01/10/20/2020*  
*LAM 10/20/2020*



### Quality Control Sample Performance Assessment

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

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

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	LCS056785
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

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10/20/2020

LAM 10/20/2020



## Quality Control Sample Performance Assessment

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

Analyst Must Manually Enter All Fields Highlighted in Yellow.

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)?	
	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%

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

Duplicate Sample Assessment		
Sample I.D.:	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%	

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:

10/14/20



## Quality Control Sample Performance Assessment

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

***Analyst Must Manually Enter All Fields Highlighted in Yellow.***

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
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	
LCSD/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%	

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

Duplicate Sample Assessment		
Sample I.D.:	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%	

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:

**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:

<u>Qualifier</u>	<u>Usable Data</u>
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. <i>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.</i>
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. <i>Note: SCS does not use the “U” flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).</i>
U*	This analyte should be considered “not-detected” because it was detected in an associated blank at a similar level.

<u>Qualifier</u>	<u>Unusable Data</u>
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:

<b>Sample ID</b>	<b>Sample Date</b>	<b>DQE Level</b>	<b>Sample ID</b>	<b>Sample Date</b>	<b>DQE Level</b>
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	<b><u>QC Samples</u></b>		
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**

**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



**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.



**Sample Preservation and cooler temperature met (HNO<sub>3</sub> 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



**Holding times met (180 days)**

OK



**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)



**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



**Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**

**PZ-25 = Dup-01**

<u>Constituent</u>	<u>Parent Conc (mg/L)</u>	<u>Dup Conc (mg/L)</u>	<u>RPD/Diff</u>
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**

<u>Constituent</u>	<u>Parent Conc (mg/L)</u>	<u>Dup (mg/L)</u>	<u>RPD/Diff</u>
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).



**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



**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 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



**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.



**Sample Preservation and cooler temperature met (HNO<sub>3</sub> 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



**Holding times met (Hg = 28 days)**

OK



**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**



**Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)**

p. 31 LCS 2987109 Hg = 93% OK



**Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**

**PZ-25 = Dup-01**

<u>Constituent</u>	<u>Parent Conc (mg/L)</u>	<u>Dup Conc (mg/L)</u>	<u>RPD/Diff</u>
Hg	ND	ND	NA

**PZ-23A = Dup-02**

<u>Constituent</u>	<u>Parent Conc (mg/L)</u>	<u>Dup (mg/L)</u>	<u>RPD/Diff</u>
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).



**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*



**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 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



**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.



**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



**Holding times met (F –28 days)**

OK



**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



**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



**Lab Duplicate - Field Duplicate precision goals met (20%)**

**PZ-25 = Dup-01**

<u>Constituent</u>	<u>Parent Sample Conc (mg/L)</u>	<u>Dup Conc (mg/L)</u>	<u>RPD/Diff</u>
fluoride	0.14	0.14	0.0

**PZ-23A = Dup-02**

<u>Constituent</u>	<u>Parent Sample Conc (mg/L)</u>	<u>Dup Conc (mg/L)</u>	<u>RPD/Diff</u>
fluoride	0.057J	ND	NA



**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



**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																
<input checked="" type="checkbox"/>			<b>Case Narrative and COC Completeness Review</b> OK																
<input checked="" type="checkbox"/>			<b>Sample Preservation and cooler temperature met (HNO<sub>3</sub> to pH&lt;2)</b> OK																
<input checked="" type="checkbox"/>			<b>Holding times met (180 days)</b> OK																
	<input checked="" type="checkbox"/>		<b>QC Blanks Review (net blank value &lt;MDC)</b> p. 29 radium-228 (1994499) = present but <MDC p. 30 radium-226 (1994514) = <b>0.206</b> pCi/L ( <i>sample 018</i> ) <i>No flag, assoc. sample &lt;MDC</i> p. 31 radium-228 (1994497) = <b>0.722</b> pCi/L 5x= <b>3.61</b> ( <i>samples 001-017</i> ) <b>Flag assoc. Ra-228 and total radium results "U*": PZ-17 Reason Code: BL</b> p. 32 radium-226 (1994508) = present but <MDC  <u>Field/Equipment Blanks:</u> p. 20 EB-01 ( <i>assoc. w/ PZ-2B</i> ) present but <MDC (ND) p. 24 FB-01– present but <MDC																
<input checked="" type="checkbox"/>			<b>Laboratory Control Sample (LCS) recovery within lab limits (80-120%; RPD = RER (2σ &lt;3)</b> 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																
<input checked="" type="checkbox"/>			<b>Lab Duplicate - Field Duplicate precision goals met (lab limits); lab dup every 10 samples (RPD = RER (2σ) &lt;3)</b> <b>PZ-25 = DUP-01</b> <table border="1"> <thead> <tr> <th>Constituent</th> <th>Parent Conc (pCi/L)</th> <th>Dup Conc (pCi/L)</th> <th>RPD</th> </tr> </thead> <tbody> <tr> <td>Ra-226</td> <td>&lt;MDC</td> <td>0.490</td> <td>NC</td> </tr> <tr> <td>Ra-228</td> <td>&lt;MDC</td> <td>&lt; MDC</td> <td>NC</td> </tr> <tr> <td>tot. radium</td> <td>&lt;MCC</td> <td>&lt; MDC</td> <td>NC</td> </tr> </tbody> </table>	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
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

**Lab Duplicate - Field Duplicate (cont.)**

**PZ-23A = DUP-02**

<u>Constituent</u>	<u>Parent Conc (pCi/L)</u>	<u>Dup Conc (pCi/L)</u>	<u>RPD</u>
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:

<u>Qualifier</u>	<u>Usable Data</u>
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. <i>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.</i>
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. <i>Note: SCS does not use the “U” flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).</i>
U*	This analyte should be considered “not-detected” because it was detected in an associated blank at a similar level.

<u>Qualifier</u>	<u>Unusable Data</u>
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:

<b>Sample ID</b>	<b>Sample Date</b>	<b>DQE Level</b>	<b>Sample ID</b>	<b>Sample Date</b>	<b>DQE Level</b>
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	<b><u>QC Samples</u></b>		
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
<input checked="" type="checkbox"/>			<p><b>Case Narrative and COC Completeness Review</b> No case narrative is included with Level II data package from Pace.</p>
<input checked="" type="checkbox"/>			<p><b>Sample Preservation and cooler temperature met (HNO<sub>3</sub> to pH&lt;2; 6°C±2)</b> 6.0 °C. OK</p>
<input checked="" type="checkbox"/>			<p><b>Holding times met (180 days)</b> OK</p>
<input checked="" type="checkbox"/>			<p><b>QC Blanks Review – any MB results above RL?</b> <u>Method Blanks:</u> 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 = <b>0.002 mg/L</b> <b>Flag assoc. results "U*": PZ-1D, PZ-31</b> <b>Reason Code: BL</b> p. 36 SW6020B MB 3032350 = ND  <u>Field/Equipment Blanks:</u> EB-01 (associated with <b>PZ-2D</b> only) Sb = 0.00048 J x5 = <b>0.0024 mg/L - Flag assoc. results "U*"</b> Ba = 0.00079 J x5 = <b>0.00395 mg/L - Flag assoc. results "U*"</b> B = 0.0087 J x5 = <b>0.0435 mg/L - Flag assoc. results "U*"</b> <b>Reason Code: BL</b>  FB-01 = ND (associated with all samples)</p>
<input checked="" type="checkbox"/>			<p><b>Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)</b> 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</p>





**Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**

**PZ-19 = Dup-01**

<u>Constituent</u>	<u>Parent Conc (mg/L)</u>	<u>Dup Conc (mg/L)</u>	<u>RPD/Diff &amp; RL</u>
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**

<u>Constituent</u>	<u>Parent Conc (mg/L)</u>	<u>Dup (mg/L)</u>	<u>RPD/Diff &amp; RL</u>
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).



**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



**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 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.*

- Case Narrative and COC Completeness Review**  
 No case narrative is included with Level II data package from Pace.
- Sample Preservation and cooler temperature met (HNO<sub>3</sub> to pH<2; 6°C±2)**  
 6.0°C. OK
- Holding times met (Hg = 28 days)**  
 OK
- 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
- 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
- Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**  
    **PZ-19 = Dup-01**  

<u>Constituent</u>	<u>Parent Conc (mg/L)</u>	<u>Dup Conc (mg/L)</u>	<u>RPD/Diff &amp; RL</u>
Hg	ND	ND	NA

  
    **PZ-25 = Dup-02**  

<u>Constituent</u>	<u>Parent Conc (mg/L)</u>	<u>Dup (mg/L)</u>	<u>RPD/Diff &amp; RL</u>
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).
- 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*
- 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)



**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																
<input checked="" type="checkbox"/>			<p><b>Case Narrative and COC Completeness Review</b> No case narrative is included with Level II data package from Pace.</p>																
<input checked="" type="checkbox"/>			<p><b>Sample Preservation and cooler temperature met (HNO<sub>3</sub> to pH&lt;2; 6°C±2)</b> 6.0°C. OK</p>																
<input checked="" type="checkbox"/>			<p><b>Holding times met (TDS = 7 days)</b> OK</p>																
<input checked="" type="checkbox"/>			<p><b>QC Blanks Review – any MB results above RL?</b>  <u>Method Blanks:</u>                      p. 40 MB 3025332 = ND                      p. 41 MB 3029110 = ND  <u>Field/Equipment Blanks:</u>                      EB-01 = ND (associated with PZ-2D only)                      FB-01 = ND</p>																
<input checked="" type="checkbox"/>			<p><b>Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)</b>                      p. 40 LCS 3025333 TDS = 85% OK                      p. 41 LCS 3029111 TDS = 106% OK</p>																
<input checked="" type="checkbox"/>			<p><b>Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)</b></p> <p style="text-align: center;"><b>PZ-19 = Dup-01</b></p> <table border="1"> <thead> <tr> <th>Constituent</th> <th>Parent Conc (mg/L)</th> <th>Dup Conc (mg/L)</th> <th>RPD/Diff &amp; RL</th> </tr> </thead> <tbody> <tr> <td>TDS</td> <td>492</td> <td>496</td> <td>0.8</td> </tr> </tbody> </table> <p style="text-align: center;"><b>PZ-25 = Dup-02</b></p> <table border="1"> <thead> <tr> <th>Constituent</th> <th>Parent Conc (mg/L)</th> <th>Dup (mg/L)</th> <th>RPD/Diff &amp; RL</th> </tr> </thead> <tbody> <tr> <td>TDS</td> <td>280</td> <td>288</td> <td>2.1</td> </tr> </tbody> </table> <p><b>Lab Duplicates:</b>                      p. 40 <b>PZ-14</b> – RPD OK                      p. 41 <b>PZ-19</b> – RPD OK</p>	Constituent	Parent Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff & RL	TDS	492	496	0.8	Constituent	Parent Conc (mg/L)	Dup (mg/L)	RPD/Diff & RL	TDS	280	288	2.1
Constituent	Parent Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff & RL																
TDS	492	496	0.8																
Constituent	Parent Conc (mg/L)	Dup (mg/L)	RPD/Diff & RL																
TDS	280	288	2.1																
	<input checked="" type="checkbox"/>		<p><b>Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)</b> Not applicable to TDS</p>																
<input checked="" type="checkbox"/>			<p><b>EDD Data Verification vs. Hardcopy (10% samples for each SDG)</b> Checked each sample in this SDG, all OK (18 samples total) <i>No samples in this SDG required a dilution.</i></p>																

**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:

<u>Qualifier</u>	<u>Usable Data</u>
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. <i>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.</i>
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. <i>Note: SCS does not use the “U” flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).</i>
U*	This analyte should be considered “not-detected” because it was detected in an associated blank at a similar level.

<u>Qualifier</u>	<u>Unusable Data</u>
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:

<b>Sample ID</b>	<b>Sample Date</b>	<b>DQE Level</b>	<b>Sample ID</b>	<b>Sample Date</b>	<b>DQE Level</b>
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	<b><u>QC Samples</u></b>		
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

- Case Narrative and COC Completeness Review**  
No case narrative is included with Level II data package from Pace.
- Sample Preservation and cooler temperature met (HNO<sub>3</sub> to pH<2)**  
6.0 °C. OK
- Holding times met (180 days)**  
OK
- 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
- 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%
- Lab Duplicate - Field Duplicate precision goals met (lab limits); lab dup every 10 samples (RPD = RER (2σ) <3)**  

<u>Constituent</u>	<u>PZ-19 (pCi/L)</u>	<u>FD-01 (pCi/L)</u>	<u>RPD</u>
Ra-226	0.517	0.595	14.0
Ra-228	<MDC	< MDC	NC
tot. radium	0.893	1.09	19.9

YES    NO    NA  
       

**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)

**Summary of Groundwater Analytical Data  
Plant Mitchell Ash Ponds A, 1 and 2  
Event Assessment 4**

**RPD for August and October 2020**

<b>Parameter</b>	<b>Concentration 1</b>	<b>Concentration 2</b>	
8/26/2020	PZ-23A (DUP-2)	PZ-23A	<b>RPD</b>
Barium	0.037	0.039	5%
<b>Parameter</b>	<b>Concentration 1</b>	<b>Concentration 2</b>	
8/26/2020	<b>PZ-25 (DUP-1)</b>	<b>PZ-25</b>	<b>RPD</b>
Barium	0.1	0.1	0%
8/26/2020	<b>PZ-25 (DUP-1)</b>	<b>PZ-25</b>	<b>RPD</b>
Fluoride	0.14	0.14	0%
<b>Parameter</b>	<b>Concentration 1</b>	<b>Concentration 2</b>	
10/7/2020	<b>PZ-19 (FD-01)</b>	<b>PZ-19</b>	<b>RPD</b>
Barium	0.053	0.054	2%
10/7/2020	<b>PZ-19 (FD-01)</b>	<b>PZ-19</b>	<b>RPD</b>
Boron	0.55	0.52	6%
10/7/2020	<b>PZ-19 (FD-01)</b>	<b>PZ-19</b>	<b>RPD</b>
Calcium	138	144	4%
10/7/2020	<b>PZ-19 (FD-01)</b>	<b>PZ-19</b>	<b>RPD</b>
Chloride	4.5	4.5	0%
10/7/2020	<b>PZ-19 (FD-01)</b>	<b>PZ-19</b>	<b>RPD</b>
Radium	1.09	0.893	20%
10/7/2020	<b>PZ-19 (FD-01)</b>	<b>PZ-19</b>	<b>RPD</b>
Sulfate	84	83.3	1%
10/7/2020	<b>PZ-19 (FD-01)</b>	<b>PZ-19</b>	<b>RPD</b>
TDS	496	492	1%
<b>Parameter</b>	<b>Concentration 1</b>	<b>Concentration 2</b>	
10/7/2020	<b>PZ-25 (FD-02)</b>	<b>PZ-25</b>	<b>RPD</b>
Barium	0.11	0.11	0%
10/7/2020	<b>PZ-25 (FD-02)</b>	<b>PZ-25</b>	<b>RPD</b>
Boron	<b>0.19</b>	<b>0.18</b>	5%
10/7/2020	<b>PZ-25 (FD-02)</b>	<b>PZ-25</b>	<b>RPD</b>
Calcium	85.7	84.2	2%
10/7/2020	<b>PZ-25 (FD-02)</b>	<b>PZ-25</b>	<b>RPD</b>
Chloride	1.8	1.8	0%
10/7/2020	<b>PZ-25 (FD-02)</b>	<b>PZ-25</b>	<b>RPD</b>
Fluoride	0.14	0.13	7%
10/7/2020	<b>PZ-25 (FD-02)</b>	<b>PZ-25</b>	<b>RPD</b>
Sulfate	38.3	38.1	1%
10/7/2020	<b>PZ-25 (FD-02)</b>	<b>PZ-25</b>	<b>RPD</b>
TDS	288	280	3%

For a RPD to be representative of the process, the concentrations have to 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 analytical results were compared to MCLs and secondary MCLs to evaluate groundwater quality and used in the statistical evaluation. The August and October 2020 constituent concentrations were within the historical range of concentrations. Those few concentrations higher than the historical range were identified as statistical exceedances.

Product Name: Low-Flow System

Date: 2020-08-25 16:02:43

Project Information:

Operator Name Ever Guillen  
Company Name Wood  
Project Name Plant Mitchell CCR Phase 2  
Site Name PZ-1D  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 369557  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type HDPE  
Tubing Diameter .17 in  
Tubing Length 61.21 ft

Pump placement from TOC 56.21 ft

Well Information:

Well ID PZ-1D  
Well diameter 2 in  
Well Total Depth 61.21 ft  
Screen Length 10 ft  
Depth to Water 52.98 ft

Pumping Information:

Final Pumping Rate 0 mL/min  
Total System Volume 0.7532061 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Daniel Howard  
Company Name Wood E&IS  
Project Name Plant Mitchell CCR Phase II  
Site Name PZ-2D  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 369555  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Sample Pro  
Tubing Type HDPE  
Tubing Diameter .17 in  
Tubing Length 80.2 ft

Pump placement from TOC 75.2 ft

Well Information:

Well ID PZ-2D  
Well diameter 2 in  
Well Total Depth 80.21 ft  
Screen Length 10 ft  
Depth to Water 36.1 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.5479665 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Ever Guillen  
Company Name Wood  
Project Name Plant Mitchell CCR Phase 2  
Site Name PZ-7D  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 369557  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type HDPE  
Tubing Diameter .17 in  
Tubing Length 60.37 ft

Pump placement from TOC 55.37 ft

Well Information:

Well ID PZ-7D  
Well diameter 2 in  
Well Total Depth 60.37 ft  
Screen Length 10 ft  
Depth to Water 33.28 ft

Pumping Information:

Final Pumping Rate 0 mL/min  
Total System Volume 0.7494568 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Ever Guillen  
Company Name Wood  
Project Name Plant Mitchell CCR Phase 2  
Site Name PZ-14  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 369557  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type HDPE  
Tubing Diameter .17 in  
Tubing Length 53.20 ft

Pump placement from TOC 48.20 ft

Well Information:

Well ID PZ-14  
Well diameter 2 in  
Well Total Depth 53.20 ft  
Screen Length 10 ft  
Depth to Water 44.23 ft

Pumping Information:

Final Pumping Rate 0 mL/min  
Total System Volume 0.7174541 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Andreas Shoredits  
Company Name Wood  
Project Name Plant Mitchell CCR Phase II  
Site Name PZ-15  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 369323  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type LDPE  
Tubing Diameter 0.17 in  
Tubing Length 79 ft

Pump placement from TOC 78.2 ft

Well Information:

Well ID PZ-15  
Well diameter 2.00 in  
Well Total Depth 83.22 ft  
Screen Length 10 ft  
Depth to Water 31.15 ft

Pumping Information:

Final Pumping Rate 295 mL/min  
Total System Volume 0.8326105 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 9.7 in  
Total Volume Pumped 10.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Andreas Shorebits  
Company Name Wood  
Project Name Plant Mitchell CCR Phase II  
Site Name PZ-16  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 369323  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type LDPE  
Tubing Diameter 0.17 in  
Tubing Length 50 ft

Pump placement from TOC 48.2 ft

Well Information:

Well ID PZ-16  
Well diameter 2.00 in  
Well Total Depth 53.19 ft  
Screen Length 10 ft  
Depth to Water 34.91 ft

Pumping Information:

Final Pumping Rate 300 mL/min  
Total System Volume 0.7031711 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.4 in  
Total Volume Pumped 7.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Andreas Shoredits  
Company Name Wood  
Project Name Plant Mitchell CCR Phase II  
Site Name PZ-17  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 369323  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type LDPE  
Tubing Diameter 0.17 in  
Tubing Length 59 ft

Pump placement from TOC 57.7 ft

Well Information:

Well ID PZ-17  
Well diameter 2.00 in  
Well Total Depth 62.70 ft  
Screen Length 10 ft  
Depth to Water 33.16 ft

Pumping Information:

Final Pumping Rate 290 mL/min  
Total System Volume 0.7433419 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.4 in  
Total Volume Pumped 8.1 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Ever Guillen  
Company Name Wood  
Project Name Plant Mitchell CCR Phase 2  
Site Name PZ-18  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 369557  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type HDPE  
Tubing Diameter .17 in  
Tubing Length 63.18 ft

Pump placement from TOC 58.18 ft

Well Information:

Well ID PZ-18  
Well diameter 2 in  
Well Total Depth 63.18 ft  
Screen Length 10 ft  
Depth to Water 29.64 ft

Pumping Information:

Final Pumping Rate 0 mL/min  
Total System Volume 0.761999 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Daniel Howard  
Company Name Wood E&IS  
Project Name Plant Mitchell CCR Phase II  
Site Name PZ-19  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 369555  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Micropurge  
Tubing Type HDPE  
Tubing Diameter .25 in  
Tubing Length 62.6 ft

Pump placement from TOC 57.63 ft

Well Information:

Well ID PZ-19  
Well diameter 2 in  
Well Total Depth 62.63 ft  
Screen Length 10 ft  
Depth to Water 32.56 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 1.084261 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.01 in  
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Andreas Shoredits  
Company Name Wood  
Project Name Plant Mitchell CCR Phase II  
Site Name PZ-23A  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 369323  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type LDPE  
Tubing Diameter 0.17 in  
Tubing Length 61 ft

Pump placement from TOC 59.5 ft

Well Information:

Well ID PZ-23A  
Well diameter 2.00 in  
Well Total Depth 64.5 ft  
Screen Length 10 ft  
Depth to Water 50.19 ft

Pumping Information:

Final Pumping Rate 190 mL/min  
Total System Volume 0.7522688 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.6 in  
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Daniel Howard  
Company Name Wood E&IS  
Project Name Plant Mitchell CCR Phase II  
Site Name PZ-25  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 369555  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Micropurge  
Tubing Type HDPE  
Tubing Diameter .25 in  
Tubing Length 63 ft

Pump placement from TOC 58.2 ft

Well Information:

Well ID PZ-25  
Well diameter 2 in  
Well Total Depth 63.10 ft  
Screen Length 10 ft  
Depth to Water 30.57 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 1.088122 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.04 in  
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Andreas Shorebits  
Company Name Wood  
Project Name Plant Mitchell CCR Phase II  
Site Name PZ-31  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 369323  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type LDPE  
Tubing Diameter 0.17 in  
Tubing Length 58 ft

Pump placement from TOC 56.6 ft

Well Information:

Well ID PZ-31  
Well diameter 2.00 in  
Well Total Depth 61.60 ft  
Screen Length 10 ft  
Depth to Water 39.91 ft

Pumping Information:

Final Pumping Rate 195 mL/min  
Total System Volume 0.7388785 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.7 in  
Total Volume Pumped 5.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Andreas Shorebits  
Company Name Wood  
Project Name Plant Mitchell CCR Phase II  
Site Name PZ-32  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 369323  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type LDPE  
Tubing Diameter 0.17 in  
Tubing Length 60 ft

Pump placement from TOC 58.3 ft

Well Information:

Well ID PZ-32  
Well diameter 2.00 in  
Well Total Depth 65.30 ft  
Screen Length 10 ft  
Depth to Water 38.44 ft

Pumping Information:

Final Pumping Rate 285 mL/min  
Total System Volume 0.7478054 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 10.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Ever Guillen  
Company Name Wood  
Project Name Plant Mitchell CCR Phase 2  
Site Name PZ-33  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 369557  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type HDPE  
Tubing Diameter .17 in  
Tubing Length 73.60 ft

Pump placement from TOC 68.60 ft

Well Information:

Well ID PZ-33  
Well diameter 2 in  
Well Total Depth 73.60 ft  
Screen Length 10 ft  
Depth to Water 49.63 ft

Pumping Information:

Final Pumping Rate 0 mL/min  
Total System Volume 0.8085079 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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: EVERGREEN  
 Checked By: \_\_\_\_\_

Wood.  
 Project No. 6122160170

Pine Sonde ID: 369537  
 Pine Handset ID: 30618  
 Battery Voltage %: 100

**CALIBRATION PRIOR TO SAMPLING**

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes _____ No <input checked="" type="checkbox"/>	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; <b>subtract</b> 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.	8.70
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)		12.79
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)	$0.231 + 0.0013(25 - T) \times 1000 = \text{mV}$ (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: 25475

Time: \_\_\_\_\_

Project No. 6122160170

Pine Handset ID: 30618Prepared By: EVER GUILLENBattery Voltage %: 100

Checked By: \_\_\_\_\_

## CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes _____ No <input checked="" type="checkbox"/>	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; <b>subtract</b> 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	7584
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)	$0.231 + 0.0013(25 - T) \times 1000 = \text{mV}$ (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

Wood.

Pine Sonde ID: 25475Time: 800

Project No. 6122160170

Pine Handset ID: 30618Prepared By: EVER SUKLENBattery Voltage %: 100

Checked By: \_\_\_\_\_

## CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes _____ No <input checked="" type="checkbox"/>	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)]		VALUE
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		VALUE
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)		VALUE
Calibration Temperature (°C):		24.2
Theoretical Calibration standard (mV)	$0.231 + 0.0013(25 - T) \times 1000 = \text{mV}$ (T is Temperature °C)	240.0
Reading before calibration (mV):		239.5
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.		VALUE
10 NTU Turbidity Standard	Before Cal: <del>9.61</del> 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:	790
10 NTU Turbidity Check STD	Before Cal: 9.52 After Cal:	10.2

CALIBRATION SUCCESSFUL?

Date: 08/25/2020

Wood.

SMARTROLL

Pine Sonde ID: 030616Time: 06:20Project No. 6122160170 *Pool*Pine Handset ID: 025467Prepared By: A. SHORRETSBattery Voltage %: 90Checked By: —

Hach 2100Q S/N

Pine #

## CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes _____ No <input checked="" type="checkbox"/>	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 in Hg
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; <b>subtract</b> 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:		6.7
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	7.76
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 # <u>04E438</u>	Exp. <u>05/21</u>	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 # <u>09D808</u>	Exp <u>04/22</u>	6.88
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 # <u>94L648</u>	Exp. <u>12/21</u>	—
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 # <u>09D046</u>	Exp. <u>04/22</u>	—
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. 240.0 mV)	
Calibration Temperature (°C):	Lot # <u>09D520</u>	Exp. <u>01/21</u>	235.6
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 # <u>A0113</u>	Exp <u>07/21</u>	Before Cal: 19.6 After Cal: 19.3
100 NTU Turbidity Standard	Lot # <u>A9121</u>	Exp. <u>08/20</u>	Before Cal: 100 After Cal: 99.7
800 NTU Turbidity Standard	Lot # <u>A0111</u>	Exp. <u>07/21</u>	Before Cal: 787 After Cal: 794
10 NTU Turbidity Check STD	Lot # <u>A9213</u>	Exp. <u>11/20</u>	Before Cal: 9.58 After Cal: 9.82
NTU Turbidity Check STD			Before Cal: After Cal:

CALIBRATION SUCCESSFUL? YES

A.S.  
08/25/20  
100%

A.S.  
08/25/20  
96  
23.7°C  
23.7°C

Date: 08/26/2020  
 Time: 06:25  
 Prepared By: A. SHOREDT  
 Checked By: —

Wood.  
 Project No. 6122160170 iPod

SMARTROLE  
 Pine Sonde ID: 025467  
 Pine Handset ID: 025030616  
 Battery Voltage %: 90  
 Hach 2100a S/N 12110C021737  
 Pine #022853

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes ___ No <input checked="" type="checkbox"/>	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
DO concentration after Calibration (mg/L):		
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	100.4%
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 # 09E438	Exp. 05/21
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 # 09D808	Exp. 04/22
pH 7.0 value after calibration:		7.00
pH 7.0 mV (range is -50 to +50 mV):		-38.2
pH 10 value before calibration:	Lot # 9GL648	Exp. 12/21
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 # 09D046	Exp. 04/22
pH 4.0 value after calibration:		4.00
pH 4.0 mV (range is 130 to 230 mV):		126.9

Note: Span between pH 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP) (Std 240.0 mV)		
Calibration Temperature (°C):	Lot #	Exp
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):		240.8

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
500 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: 1328  
 Prepared By: Daniel Howard  
 Checked By: \_\_\_\_\_

Wood.  
 Project No.  
 6122160170.2002

Pine Sonde ID: A0472.5  
 Pine Handset ID: 369956  
 Battery Voltage %: 50

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes _____ No <input checked="" type="checkbox"/>	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 <u>06E438</u> 05/21	1.413
Temperature (°C)		93.6
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 <u>96K721</u> 11/21	6.98
pH 7.0 value after calibration:		7.86
pH 7.0 mV (range is -50 to +50 mV):		32.9°C -49.5
pH 10 value before calibration:	Lot <u>96L648</u> 12/21	9.92
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 <u>06D046</u> 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 <u>06D520</u> 1/21	39.4
Theoretical Calibration standard (mV)	$0.231 + 0.0013(25 - T) \times 1000 = \text{mV}$ (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 <u>A9254</u> 12/20	Before Cal:	After Cal: 19.4
100 NTU Turbidity Standard	Lot <u>A9213</u> 11/20	Before Cal:	After Cal: 98.9
800 NTU Turbidity Standard	Lot <u>A9241</u> 12/20	Before Cal:	After Cal: 78.2
1.0 NTU Turbidity Check STD	Lot <u>A9213</u> 11/20	Before Cal:	After Cal: 9.77
<0.1 NTU Turbidity Check STD	Lot <u>A0037</u> 2/22	Before Cal:	After Cal:

CALIBRATION SUCCESSFUL?

Haach 2100 @ 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 <input checked="" type="checkbox"/>	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 OGE438 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 96K721 11/21	7.81
pH 7.0 value after calibration:		7.00
pH 7.0 mV (range is -50 to +50 mV):		-48.0
pH 10 value before calibration:	Lot 96L648 12/21	10.73
pH 10 value after calibration:		10.00
pH 10 mV (range is -130 to -230 mV):		-219.8
pH 4.0 value before calibration:	Lot 06D046 4/22	4.93
pH 4.0 value after calibration:		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 06D520 1/21	26.4
Theoretical Calibration standard (mV)	$0.231 + 0.0013(25 - T) \times 1000 = \text{mV}$ (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:	10.1
800 NTU Turbidity Standard Lot A9241 12/20	Before Cal:	After Cal:	81.3
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:	0.94

CALIBRATION SUCCESSFUL?

Haech 2100Q ID: 031426

## Groundwater Monitoring Well Integrity Form

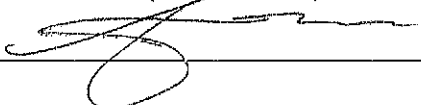
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID MW-102  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

  
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## Groundwater Monitoring Well Integrity Form

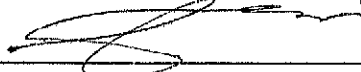
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID MW-108  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

  
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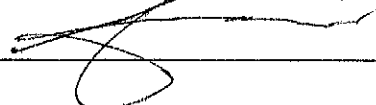
**Groundwater Monitoring Well Integrity Form**

Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID MW-111  
 Date 08/25/2020

		Yes	No	n/a
<b>1 Location/Identification</b>				
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)	✓	_____	_____
<b>2 Protective Casing</b>				
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?	✓	_____	_____
<b>3 Surface pad</b>				
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)?	✓	_____	_____
<b>4 Internal casing</b>				
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)	✓	_____	_____
<b>5 Sampling: Groundwater Wells Only:</b>				
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



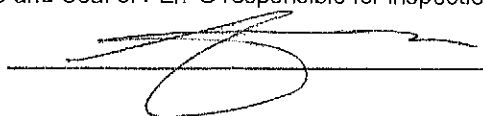


**Groundwater Monitoring Well Integrity Form**

Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID MW-113  
 Date 08/25/2020

		Yes	No	n/a
<b>1 Location/Identification</b>				
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)	✓	_____	_____
<b>2 Protective Casing</b>				
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?	✓	_____	_____
<b>3 Surface pad</b>				
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)?	✓	_____	_____
<b>4 Internal casing</b>				
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)	✓	_____	_____
<b>5 Sampling: Groundwater Wells Only:</b>				
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

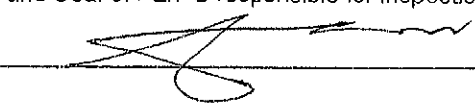
Signature and Seal of PE/PG responsible for inspection  


**Groundwater Monitoring Well Integrity Form**

Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID MW-115  
 Date 08/25/2020

		Yes	No	n/a
<b>1 Location/Identification</b>				
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)	✓	_____	_____
<b>2 Protective Casing</b>				
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?	✓	_____	_____
<b>3 Surface pad</b>				
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)?	✓	_____	_____
<b>4 Internal casing</b>				
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)	✓	_____	_____
<b>5 Sampling: Groundwater Wells Only:</b>				
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**

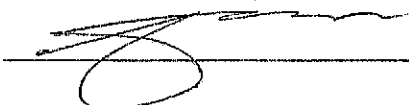
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID MW-116  
 Date 08/25/2020

		Yes	No	n/a
<b>1 Location/Identification</b>				
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)	/	___	___
<b>2 Protective Casing</b>				
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?	/	___	___
<b>3 Surface pad</b>				
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)?	/	___	___
<b>4 Internal casing</b>				
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)	/	___	___
<b>5 Sampling: Groundwater Wells Only:</b>				
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)?	___	___	/
<b>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?</b>				
		/	___	___

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

  
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## Groundwater Monitoring Well Integrity Form

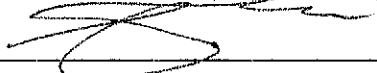
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID P2-01R  
 Date 08/26/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the casing have a functioning weep hole?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

  
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## Groundwater Monitoring Well Integrity Form

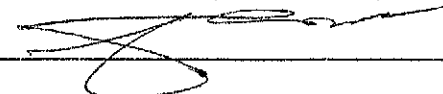
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PZ-02R  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the casing have a functioning weep hole?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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 P7-03R  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the casing have a functioning weep hole?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection



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## Groundwater Monitoring Well Integrity Form

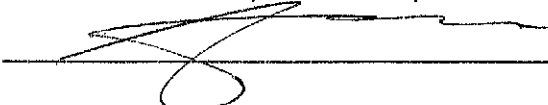
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID P7-1D  
 Date 08/24/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection




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**Groundwater Monitoring Well Integrity Form**

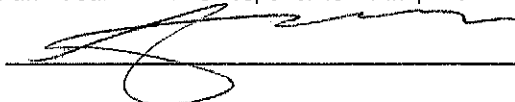
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PZ-2D  
 Date 08/24/2020

		Yes	No	n/a
<b>1 Location/Identification</b>				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

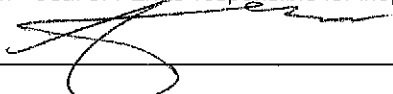
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PB-28  
 Date 08/24/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
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)	✓		
<b>2 Protective Casing</b>			
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?	✓		
<b>3 Surface pad</b>			
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)?	✓		
<b>4 Internal casing</b>			
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)	✓		
<b>5 Sampling: Groundwater Wells Only:</b>			
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

  
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# Groundwater Monitoring Well Integrity Form

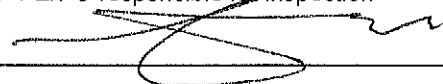
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID P7-3D  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

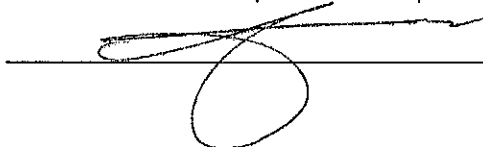
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID P2-4D  
 Date 08/26/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

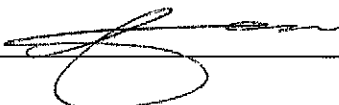
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PZ-6S  
 Date 08/26/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection



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## Groundwater Monitoring Well Integrity Form


Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID P2-7D  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection



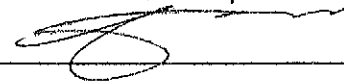
**Groundwater Monitoring Well Integrity Form**

Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID P2-8D  
 Date 08/25/2020

		Yes	No	n/a
<u>1 Location/Identification</u>				
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)	✓	_____	_____
<u>2 Protective Casing</u>				
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?	✓	_____	_____
<u>3 Surface pad</u>				
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)?	✓	_____	_____
<u>4 Internal casing</u>				
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)	✓	_____	_____
<u>5 Sampling: Groundwater Wells Only:</u>				
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

  
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## Groundwater Monitoring Well Integrity Form


Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PZ-9D  
 Date 05/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

  
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## Groundwater Monitoring Well Integrity Form

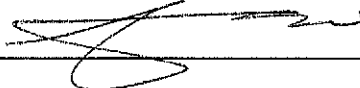
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PT-105  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

  
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## Groundwater Monitoring Well Integrity Form

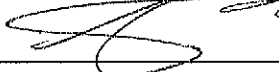
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PZ-115  
 Date \_\_\_\_\_

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

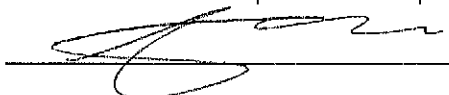
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PZ-125  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

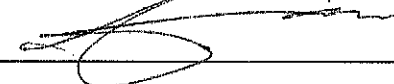
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PE-14  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

  
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# Groundwater Monitoring Well Integrity Form

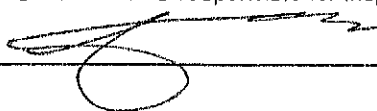
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID P7-15  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

  
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## Groundwater Monitoring Well Integrity Form

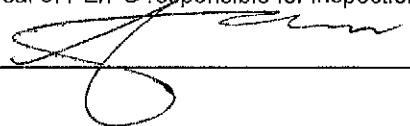
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PZ-16  
 Date 08/27/2020

	Yes	No	n/a
<u>1 Location/Identification</u>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>2 Protective Casing</u>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>3 Surface pad</u>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>4 Internal casing</u>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>5 Sampling: Groundwater Wells Only:</u>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

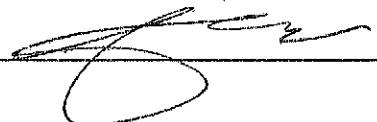
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PZ-17  
 Date 08/25/2020

	Yes	No	n/a
<u>1 Location/Identification</u>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>2 Protective Casing</u>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>3 Surface pad</u>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>4 Internal casing</u>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>5 Sampling: Groundwater Wells Only:</u>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

Assessing well cap, needs to accommodate telemetry cable

Signature and Seal of PE/PG responsible for inspection



## Groundwater Monitoring Well Integrity Form

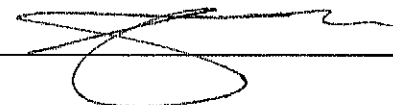
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PE-18  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

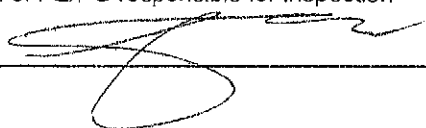
  
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**Groundwater Monitoring Well Integrity Form**

Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID P2-19  
 Date 08/25/2020

		Yes	No	n/a
<b>1 Location/Identification</b>				
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)	✓	_____	_____
<b>2 Protective Casing</b>				
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?	✓	_____	_____
<b>3 Surface pad</b>				
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)?	✓	_____	_____
<b>4 Internal casing</b>				
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)	✓	_____	_____
<b>5 Sampling: Groundwater Wells Only:</b>				
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

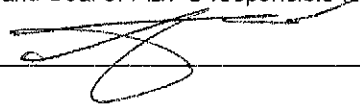
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PB-20  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

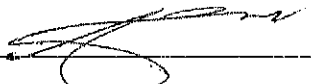
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PE-21  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

  
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## Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PB-22  
 Date 08/26/2020


	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

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## Groundwater Monitoring Well Integrity Form

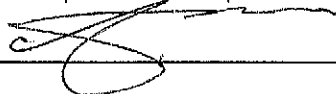
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID P2-23A  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

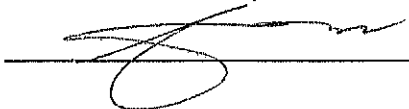
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PB-24A  
 Date \_\_\_\_\_

	Yes	No	n/a
<b>1 Location/Identification</b>			
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)	✓	_____	_____
<b>2 Protective Casing</b>			
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?	✓	_____	_____
<b>3 Surface pad</b>			
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)?	✓	_____	_____
<b>4 Internal casing</b>			
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 ballers)?	✓	_____	_____
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)	✗	✓	_____
<b>5 Sampling: Groundwater Wells Only:</b>			
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

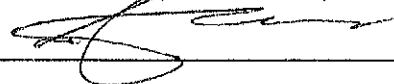
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID P-25  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

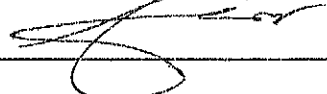
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID P2-26  
 Date 05/26/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

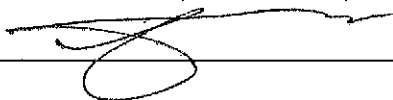
  
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## Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PE-27  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:			

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## 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
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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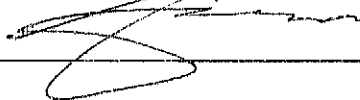
## Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID Y2-29  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

  
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## Groundwater Monitoring Well Integrity Form

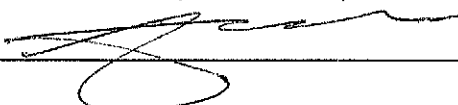
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID P2-31  
 Date 08/24/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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## Groundwater Monitoring Well Integrity Form

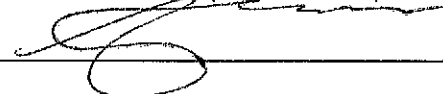
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PZ-32  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection




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## Groundwater Monitoring Well Integrity Form

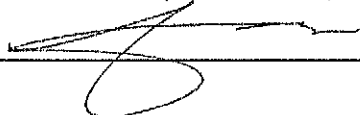
Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID PZ-33  
 Date 08/25/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
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b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
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b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<b>4 Internal casing</b>			
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b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

  
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Product Name: Low-Flow System

Date: 2020-10-06 11:57:47

Project Information:

Operator Name Ever Guillen  
Company Name WOOD  
Project Name Plant Mitchell CCR  
Site Name PZ-1D  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 613229  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type HDPE  
Tubing Diameter 0.17 in  
Tubing Length 61.21 ft

Pump placement from TOC 56.21 ft

Well Information:

Well ID PZ-1D  
Well diameter 2 in  
Well Total Depth 61.21 ft  
Screen Length 10 ft  
Depth to Water 50.72 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.7532061 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Terrell Parker  
Company Name Wood E&IS  
Project Name Plant Mitchell CCR  
Site Name PZ-2D  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 541714  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED dedicated bladder  
Tubing Type PE  
Tubing Diameter .170 in  
Tubing Length 80.2 ft

Pump placement from TOC 75.2 ft

Well Information:

Well ID PZ-2D  
Well diameter 2 in  
Well Total Depth 80.42 ft  
Screen Length 10 ft  
Depth to Water 33.85 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.8379666 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 6 in  
Total Volume Pumped 13.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Terrell Parker  
Company Name Wood E&IS  
Project Name Plant Mitchell CCR  
Site Name PZ-7D  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 541714  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED dedicated bladder  
Tubing Type PE  
Tubing Diameter .170 in  
Tubing Length 60 ft

Pump placement from TOC 55.37 ft

Well Information:

Well ID PZ-7D  
Well diameter 2 in  
Well Total Depth 60.37 ft  
Screen Length 10 ft  
Depth to Water 31.72 ft

Pumping Information:

Final Pumping Rate 250 mL/min  
Total System Volume 0.7478054 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.32 in  
Total Volume Pumped 9.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Andreas Shoredits  
Company Name Wood E&IS  
Project Name Plant Mitchell  
Site Name PZ-14  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642533  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type HDPE  
Tubing Diameter 0.17 in  
Tubing Length 58 ft

Pump placement from TOC 48.20 ft

Well Information:

Well ID PZ-14  
Well diameter 2.00 in  
Well Total Depth 53.20 ft  
Screen Length 10 ft  
Depth to Water 42.27 ft

Pumping Information:

Final Pumping Rate 195 mL/min  
Total System Volume 0.7388785 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.4 in  
Total Volume Pumped 4.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Terrell Parker  
Company Name Wood E&IS  
Project Name Plant Mitchell CCR  
Site Name PZ-15  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 541714  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED dedicated bladder  
Tubing Type PE  
Tubing Diameter .170 in  
Tubing Length 83 ft

Pump placement from TOC 78.2 ft

Well Information:

Well ID PZ-15  
Well diameter 2 in  
Well Total Depth 83.22 ft  
Screen Length 10 ft  
Depth to Water 30.69 ft

Pumping Information:

Final Pumping Rate 250 mL/min  
Total System Volume 0.8504641 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2.28 in  
Total Volume Pumped 11.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Andreas Shoredits  
Company Name Wood E&IS  
Project Name Plant Mitchell  
Site Name PZ-16  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642533  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type HDPE  
Tubing Diameter 0.17 in  
Tubing Length 58 ft

Pump placement from TOC 48.2 ft

Well Information:

Well ID PZ-16  
Well diameter 2.00 in  
Well Total Depth 53.19 ft  
Screen Length 10 ft  
Depth to Water 33.40 ft

Pumping Information:

Final Pumping Rate 240 mL/min  
Total System Volume 0.7388785 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.4 in  
Total Volume Pumped 5.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Andreas Shoredits  
Company Name Wood E&IS  
Project Name Plant Mitchell  
Site Name PZ-17  
Latitude 31° 26' 40.9"  
Longitude -84° -7' -50.9"  
Sonde SN 642533  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type HDPE  
Tubing Diameter 0.17 in  
Tubing Length 67 ft

Pump placement from TOC 57.70 ft

Well Information:

Well ID PZ-17  
Well diameter 2.00 in  
Well Total Depth 62.70 ft  
Screen Length 10 ft  
Depth to Water 32.09 ft

Pumping Information:

Final Pumping Rate 290 mL/min  
Total System Volume 0.7790493 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.1 in  
Total Volume Pumped 8.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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 purge 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:

Operator Name Andreas Shoredits  
Company Name Wood E&IS  
Project Name Plant Mitchell  
Site Name PZ-18  
Latitude 31° 26' 40.9"  
Longitude -84° -7' -50.9"  
Sonde SN 642533  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type HDPE  
Tubing Diameter 0.17 in  
Tubing Length 73 ft

Pump placement from TOC 58.18 ft

Well Information:

Well ID PZ-18  
Well diameter 2.00 in  
Well Total Depth 63.18 ft  
Screen Length 10 ft  
Depth to Water 29.30 ft

Pumping Information:

Final Pumping Rate 220 mL/min  
Total System Volume 0.8058299 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.1 in  
Total Volume Pumped 5.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Terrell Parker  
Company Name Wood E&IS  
Project Name Plant Mitchell CCR  
Site Name PZ-19  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 541714  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED dedicated bladder  
Tubing Type PE  
Tubing Diameter .170 in  
Tubing Length 62.7 ft

Pump placement from TOC 57.63 ft

Well Information:

Well ID PZ-19  
Well diameter 2 in  
Well Total Depth 62.63 ft  
Screen Length 10 ft  
Depth to Water 31.51 ft

Pumping Information:

Final Pumping Rate 250 mL/min  
Total System Volume 0.7598566 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.2 in  
Total Volume Pumped 8.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Andreas Shoredits  
Company Name Wood E&IS  
Project Name Plant Mitchell  
Site Name PZ-23A  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642533  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type HDPE  
Tubing Diameter 0.17 in  
Tubing Length 77 ft

Pump placement from TOC 62.3 ft

Well Information:

Well ID PZ-23A  
Well diameter 2.00 in  
Well Total Depth 67.3 ft  
Screen Length 10 ft  
Depth to Water 48.45 ft

Pumping Information:

Final Pumping Rate 185 mL/min  
Total System Volume 0.8236836 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.7 in  
Total Volume Pumped 13.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Terrell Parker  
Company Name Wood E&IS  
Project Name Plant Mitchell CCR  
Site Name PZ-25  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 541714  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED dedicated bladder  
Tubing Type PE  
Tubing Diameter .170 in  
Tubing Length 63 ft

Pump placement from TOC 58.2 ft

Well Information:

Well ID PZ-25  
Well diameter 2 in  
Well Total Depth 63.19 ft  
Screen Length 10 ft  
Depth to Water 30.11 ft

Pumping Information:

Final Pumping Rate 225 mL/min  
Total System Volume 0.7611957 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.72 in  
Total Volume Pumped 9.9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Ever Guillen  
Company Name WOOD  
Project Name Plant Mitchell CCR  
Site Name PZ-31  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 613229  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED  
Tubing Type HDPE  
Tubing Diameter 0.17 in  
Tubing Length 61.60 ft

Pump placement from TOC 56.60 ft

Well Information:

Well ID PZ-31  
Well diameter 2 in  
Well Total Depth 61.60 ft  
Screen Length 10 ft  
Depth to Water 37.33 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.7549468 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Terrell Parker  
Company Name Wood E&IS  
Project Name Plant Mitchell CCR  
Site Name PZ-32  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 541714  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED dedicated bladder  
Tubing Type PE  
Tubing Diameter .170 in  
Tubing Length 65.3 ft

Pump placement from TOC 60.3 ft

Well Information:

Well ID PZ-32  
Well diameter 2 in  
Well Total Depth 65.30 ft  
Screen Length 10 ft  
Depth to Water 36.28 ft

Pumping Information:

Final Pumping Rate 250 mL/min  
Total System Volume 0.7714615 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 14.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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:

Operator Name Ever Guillen WOOD  
Company Name Plant Mitchell CCR  
Project Name PZ-33  
Site Name 0° 0' 0"  
Latitude 0° 0' 0"  
Longitude 642533  
Sonde SN HACH 2100Q  
Turbidity Make/Model

Pump Information:

Pump Model/Type QED  
Tubing Type HDPE  
Tubing Diameter 0.17 in  
Tubing Length 73.60 ft

Pump placement from TOC 68.60 ft

Well Information:

Well ID PZ-33  
Well diameter 2 in  
Well Total Depth 73.60 ft  
Screen Length 10 ft  
Depth to Water 48.22 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.8085079 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 13 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/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. SHORROCK  
 Checked By: NA

Wood.  
 Project No. 6122160170

SMARTROLL MP  
 Pine Sonde ID: 642533  
 Pine Handset ID: -  
 Battery Voltage %: 100  
 Hach 21000 S/N 16110C053543

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes _____ No <input checked="" type="checkbox"/>	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 mmHg
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; <b>subtract</b> 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	-5.18 = 759.11 mmHg
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
DO concentration after Calibration (mg/L):		8.96
% 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	-

99.6%  
100.1%

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 # <u>19410200</u> Exp. <u>NA</u>	1.413
Temperature (°C)		22.28
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 # <u>19340057</u> Exp. <u>08/21</u>	-
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 # <u>19320102</u> Exp. <u>08/21</u>	-
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 # <u>20010025</u> Exp. <u>08/21</u>	4.03
pH 4.0 value after calibration:		4.00
pH 4.0 mV (range is 130 to 230 mV):		169.6

22.0°C

Note: Span between pH 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP) (Std 228mV)		
Calibration Temperature (°C):	Lot # <u>19460167</u> Exp. <u>08/21</u>	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 # <u>NA</u>	Exp. <u>NA</u>	Before Cal: <u>20.1</u>	After Cal: <u>20.4</u>	
100 NTU Turbidity Standard	Lot # <u>NA</u>	Exp. <u>NA</u>	Before Cal: <u>105</u>	After Cal: <u>105</u>	
500 NTU Turbidity Standard	Lot # <u>NA</u>	Exp. <u>NA</u>	Before Cal: <u>816</u>	After Cal: <u>829</u>	
10 NTU Turbidity Check STD	Lot # <u>A0226</u>	Exp. <u>11/21</u>	Before Cal: <u>10.2</u>	After Cal: <u>10.3</u>	
<0.1 NTU Turbidity Check STD	Lot # <u>A0037</u>	Exp. <u>02/22</u>	Before Cal: <u>-</u>	After Cal: <u>0.21</u>	
<b>CALIBRATION SUCCESSFUL?</b>					<b>YES</b>

Date: 10/6/2020  
 Time: 07:55  
 Prepared By: A. SHOREDCITS  
 Checked By: NA

Wood,  
 Project No. 6122160170

SMARTROLL MP  
 Pine Sonde ID: 642533  
 Pine Handset ID: NA  
 Battery Voltage %: 100  
 Hach 2100 @ S/N 161100053543

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes No <input checked="" type="checkbox"/>	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 x 25.4 = 763.5 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	763.5 mmHg - 5.18 = 758.34 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
DO concentration after Calibration (mg/L):		8.61
% 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)		23.51
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	-
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	-
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# 20010026 Exp. 08/21	4.02
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)	$0.231 + 0.0013(25 - T) \times 1000 = \text{mV}$ (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
500 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
20.1 NTU Turbidity Check STD	Lot# A0199	Exp. 07/22	Before Cal:	-	After Cal:	0.46
CALIBRATION SUCCESSFUL?					YFS	

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 <input checked="" type="checkbox"/>	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)	$0.231 + 0.0013(25 - T) \times 1000 = \text{mV}$ (T is Temperature °C)
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.			
<u>10</u> NTU Turbidity Standard	Before Cal:	9.93	After Cal: 9.97
<u>20</u> NTU Turbidity Standard	Before Cal:	19.4	After Cal: 19.8
<u>100</u> NTU Turbidity Standard	Before Cal:	97.2	After Cal: 99.0
<u>800</u> NTU Turbidity Check STD	Before Cal:	763	After Cal: 788
<u>0.1</u> NTU Turbidity Check STD	Before Cal:	0.18	After Cal: 0.18
<b>CALIBRATION SUCCESSFUL?</b>			<b>YES</b>



Date: 10-7-20  
 Time: 930  
 Prepared By: EVER GUILLEN  
 Checked By: \_\_\_\_\_

Wood.  
 Project No. 6122160170

Pine Sonde ID: 613229  
 Pine Handset ID: \_\_\_\_\_  
 Battery Voltage %: \_\_\_\_\_

NOTE! SMART TROLL DID NOT WORK - CALIBRATION PRIOR TO SAMPLING USED UNIT CALIBRATED BY A. SHREDDITS

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes _____ No <input checked="" type="checkbox"/>	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)	$0.231 + 0.0013(25 - T) \times 1000 = \text{mV}$ (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.			
<u>10</u> NTU Turbidity Standard	Before Cal:	<u>10.4</u>	After Cal: <u>10.1</u>
<u>20</u> NTU Turbidity Standard	Before Cal:	<u>19.0</u>	After Cal: <u>19.6</u>
<u>100</u> NTU Turbidity Standard	Before Cal:	<u>98.3</u>	After Cal: <u>97.5</u>
<u>800</u> NTU Turbidity Check STD	Before Cal:	<u>777</u>	After Cal: <u>782</u>
<u>0.1</u> NTU Turbidity Check STD	Before Cal:	<u>0.73</u>	After Cal: <u>0.15</u>
<b>CALIBRATION SUCCESSFUL?</b>			

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 <input checked="" type="checkbox"/>	Date: _____ Time: _____ <i>N/A</i> OPTICAL DO
Current Air Temperature °C (meter reading):		<i>20.11</i>
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):	<i>92.4%</i>	<i>759.6 mm Hg</i>
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	<i>N/A</i>
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		<i>9.07</i>
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	<i>8.90</i>
DO concentration after Calibration (mg/L):		<i>9.05</i>
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	<i>99.8%</i> ✓
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	<i>2011 10-6-20</i>

Note:

CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)	<i>LOT# 1946/200 Exp. UNK.</i>	<i>1.413</i>
Temperature (°C)		<i>22.2</i>
Reading before Calibration (mS/cm)		<i>N/A</i>
Reading AFTER Calibration (mS/cm)		<i>1.41</i> ✓
Conductivity Cell Constant (unitless):		<i>N/A</i>

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH 7.0 value before calibration:	<i>LOT# 19340057 Exp. 08/2021</i>	
pH 7.0 value after calibration:		
pH 7.0 mV (range is -50 to +50 mV):	<i>22.0°C</i>	<i>-8.3</i>
pH 10 value before calibration:	<i>LOT# 19320102 Exp. 08/2021</i>	
pH 10 value after calibration:		<i>10.04</i> ✓
pH 10 mV (range is -130 to -230 mV):		<i>-181.1</i>
pH 4.0 value before calibration:	<i>LOT# 20010025 Exp. 08/2021</i>	<i>4.03</i>
pH 4.0 value after calibration:	<i>22.4°C 1</i>	
pH 4.0 mV (range is 130 to 230 mV):		<i>167.8</i>

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):	<i>LOT# 19460167 Exp. 08/2021</i>	<i>20.65</i>
Theoretical Calibration standard (mV)	$0.231 + 0.0013(25-T) \times 1000 = \text{mV}$ (T is Temperature °C)	<i>228</i>
Reading before calibration (mV):	<i>21.2°C</i>	<i>229.4</i>
Reading after calibration (mV):		<i>228.7</i>

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.			
<i>20</i> NTU Turbidity Standard <i>LOT# A0231</i>	Before Cal:	After Cal:	<i>20.2</i>
<i>100</i> NTU Turbidity Standard <i>LOT# A0218</i>	Before Cal:	After Cal:	<i>102</i>
<i>800</i> NTU Turbidity Standard <i>LOT# A0204</i>	Before Cal:	After Cal:	<i>815</i>
<i>10</i> NTU Turbidity Check STD <i>LOT# A</i>	Before Cal:	After Cal:	<i>9.78</i> ✓
<i>0.1</i> NTU Turbidity Check STD <i>LOT# A0037</i>	Before Cal:	After Cal:	<i>0.17</i> ✓

CALIBRATION SUCCESSFUL?

*10-6-20*  
*20.2*  
*N716*



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 <input checked="" type="checkbox"/>	Date: Time: <u>N/A optical DO</u>
Current Air Temperature °C (meter reading):		<u>21.48</u>
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		<u>757.0</u>
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	<u>N/A</u>
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		<u>8.80</u>
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	<u>8.84</u>
DO concentration after Calibration (mg/L):		<u>8.79</u>
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	<u>99.9%</u>
DO Charge (DO ch):	Acceptable Range is 25 to 75	<u>N/A</u>
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	<u>↓</u>

Note:

CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]	
Calibration standard used (mS/cm)	<u>1.413 Lot # 19410200 No Exp.</u>
Temperature (°C)	<u>DATE on</u>
Reading before Calibration (mS/cm)	<u>BOTTLE</u>
Reading AFTER Calibration (mS/cm)	<u>1.41</u>
Conductivity Cell Constant (unitless):	<u>N/A</u>

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH	
pH 7.0 value before calibration:	<u>ORP pool</u>
pH 7.0 value after calibration:	<u>Lot # 19340057 Exp. 08/2021</u>
pH 7.0 mV (range is -50 to +50 mV):	<u>22.9°C</u>
pH 10 value before calibration:	<u>Lot # 19320102 Exp. 08/2021</u>
pH 10 value after calibration:	<u>22.9°C</u>
pH 10 mV (range is -130 to -230 mV):	<u>-180.9</u>
pH 4.0 value before calibration:	<u>Lot # 20010025 Exp. 08/2021</u>
pH 4.0 value after calibration:	<u>22.8°C</u>
pH 4.0 mV (range is 130 to 230 mV):	<u>9 mV 10.120</u>

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):	<u>Lot # 19460107 Exp. 08/2021</u>
Theoretical Calibration standard (mV)	<u>0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)</u>
Reading before calibration (mV):	<u>22.7</u>
Reading after calibration (mV):	<u>228</u>

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.	
<u>20</u> NTU Turbidity Standard <u>Lot # A0231 Exp. Nov. 2021</u>	Before Cal: After Cal: <u>19.7</u>
<u>100</u> NTU Turbidity Standard <u>Lot # A0218 Exp. Nov. 2021</u>	Before Cal: After Cal: <u>98.8</u>
<u>800</u> NTU Turbidity Standard <u>Lot # A0204 Exp. Oct. 2021</u>	Before Cal: After Cal: <u>798</u>
<u>10</u> NTU Turbidity Check STD <u>Lot # A0226 Exp. Nov. 2021</u>	Before Cal: After Cal: <u>9.78</u>
<u>50.1</u> NTU Turbidity Check STD <u>Lot # A0199 Exp. Jul. 2022</u>	Before Cal: After Cal: <u>0.19</u>

CALIBRATION SUCCESSFUL?

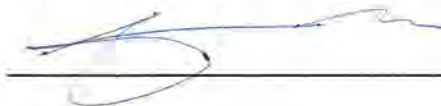
Finish 06:34 ALL PASS.

# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-01D  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Signature and Seal of PE/PG responsible for inspection





## 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
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Signature and Seal of PE/PG responsible for inspection

*[Handwritten Signature]*



# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-02S  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-03D  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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\_\_\_\_\_



# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-04D  
 Date 10/05/2020

		yes	no	n/a
<b>1 Location/Identification</b>				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Signature and Seal of PE/PG responsible for inspection

*[Handwritten Signature]*



# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-06S  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Signature and Seal of PE/PG responsible for inspection



# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-07D  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
_____			
_____			

Signature and Seal of PE/PG responsible for inspection







# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-08D  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Signature and Seal of PE/PG responsible for inspection

*[Handwritten Signature]*



# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-09D  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Signature and Seal of PE/PG responsible for inspection

*[Handwritten Signature]*



# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-10S  
 Date 10/05/2020

		yes	no	n/a
<b>1 Location/Identification</b>				
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)	✓	_____	_____
<b>2 Protective Casing</b>				
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?	✓	_____	_____
<b>3 Surface pad</b>				
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)?	✓	_____	_____
<b>4 Internal casing</b>				
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)	✓	_____	_____
<b>5 Sampling: Groundwater Wells Only:</b>				
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)?	_____	_____	✓
<b>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?</b>				
		✓	_____	_____

7 Corrective actions as needed, by date:

well inside construction area (fenced off area)

Signature and Seal of PE/PG responsible for inspection

\_\_\_\_\_



# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-11S  
 Date 10/05/2020

		yes	no	n/a
<b>1 Location/Identification</b>				
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)	✓ _____	_____	_____
<b>2 Protective Casing</b>				
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?	✓ _____	_____	_____
<b>3 Surface pad</b>				
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)?	✓ _____	_____	_____
<b>4 Internal casing</b>				
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)	✓ _____	_____	_____
<b>5 Sampling: Groundwater Wells Only:</b>				
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)?	_____	_____	✓ _____
<b>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?</b>				
		✓ _____	_____	_____

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 crosson underneath pad

Signature and Seal of PE/PG responsible for inspection

*[Handwritten Signature]*



# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-12S  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Signature and Seal of PE/PG responsible for inspection





# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-14  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
_____			
_____			

Signature and Seal of PE/PG responsible for inspection

*[Handwritten Signature]*

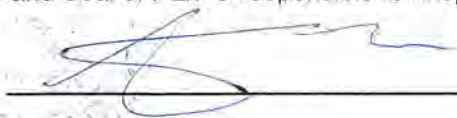


# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-15  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
_____			
_____			

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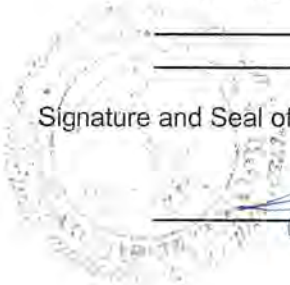


# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-16  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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*[Handwritten signature]*





# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-17  
 Date 10/05/2020

		yes	no	n/a
<b>1 Location/Identification</b>				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>				
a	Does the cap prevent entry of foreign material into the well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>				
	<u>No well cap present</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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*[Handwritten Signature]*



# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-18  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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## Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-19  
 Date 10/05/2020

		yes	no	n/a
<b>1 Location/Identification</b>				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-20  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-21  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Signature and Seal of PE/PG responsible for inspection

*[Handwritten Signature]*



# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-22  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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# Groundwater Monitoring Well Integrity Form

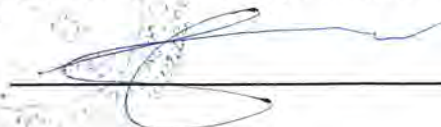
Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-23A  
 Date 10/05/2020

		yes	no	n/a
<b>1 Location/Identification</b>				
a	Is the well visible and accessible?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

Well is currently difficult to access due to construction.  
\* Pad surface is covered with soil from excavation

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# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-24A  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input type="checkbox"/> yes	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-25  
 Date 10/6/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-26  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
_____			
_____			

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\_\_\_\_\_



## Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-27  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input type="checkbox"/> yes	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Signature and Seal of PE/PG responsible for inspection





# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-28  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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## Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-29  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
_____			
_____			

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 \_\_\_\_\_



# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-31  
 Date 10/05/2020

		yes	no	n/a
<b>1 Location/Identification</b>				
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)	✓	_____	_____
<b>2 Protective Casing</b>				
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?	✓	_____	_____
<b>3 Surface pad</b>				
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)?	✓	_____	_____
<b>4 Internal casing</b>				
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)	✓	_____	_____
<b>5 Sampling: Groundwater Wells Only:</b>				
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)?	_____	_____	✓
<b>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?</b>				
		✓	_____	_____
<b>7 Corrective actions as needed, by date:</b>				
		_____	_____	_____

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## Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-32  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID PZ-33  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
_____			
_____			

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# 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
<b>1 Location/Identification</b>			
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)	—	—	✓
<b>2 Protective Casing</b>			
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?	—	—	✓
<b>3 Surface pad</b>			
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)?	—	—	✓
<b>4 Internal casing</b>			
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)	✓	—	—
<b>5 Sampling: Groundwater Wells Only:</b>			
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 MH-B-12 PZ-02R  
 Date 10/05/2020

	Yes	No	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the casing have a functioning weep hole?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

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**Groundwater Monitoring Well Integrity Form**

Site Name Plant Mitchell  
 Permit Number N/A  
 Well ID MH-B-16 PZ-032  
 Date 10/05/2020

		Yes	No	n/a
<b>1 Location/Identification</b>				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>2 Protective Casing</b>				
a	Is the protective casing free from apparent damage and able to be secured?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>3 Surface pad</b>				
a	Is the well pad in good condition (not cracked or broken)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>4 Internal casing</b>				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

\_\_\_\_\_

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## Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID MW-102  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_  
 \_\_\_\_\_




# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID MW-108  
 Date 10/05/2020

		yes	no	n/a
<b>1 Location/Identification</b>				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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## Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID MW-111  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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## Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID MW-113  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

The protective casing is rusting and deteriorating. May need replacing soon.

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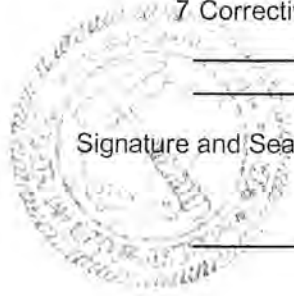




# Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID MW-115  
 Date 10/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
_____			
_____			



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*[Handwritten Signature]*



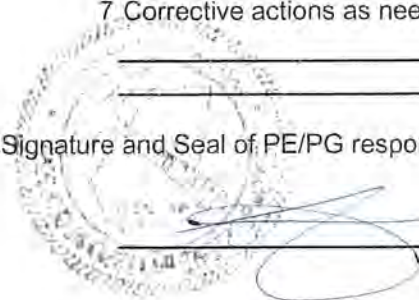


## Groundwater Monitoring Well Integrity Form

Site Name Plant Mitchell  
 Permit Number \_\_\_\_\_  
 Well ID MW-116  
 Date 16/05/2020

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>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?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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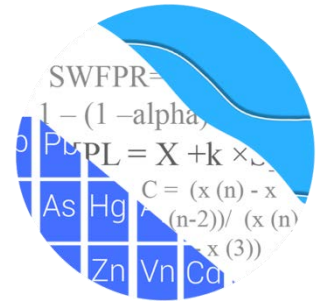


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# ***APPENDIX C***

## ***STATISTICAL ANALYSES***

# 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  
1<sup>st</sup> 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-23, 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**

### 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 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

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## 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 Prediction 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 Prediction 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	Obsrv.	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
<b>Boron (mg/L)</b>	<b>PZ-15</b>	<b>0.02691</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>0.19</b>	<b>Yes</b>	<b>48</b>	<b>4.167</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
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
<b>Calcium (mg/L)</b>	<b>PZ-18</b>	<b>119.9</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>129</b>	<b>Yes</b>	<b>47</b>	<b>2.128</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Calcium (mg/L)</b>	<b>PZ-19</b>	<b>119.9</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>144</b>	<b>Yes</b>	<b>47</b>	<b>2.128</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Calcium (mg/L)</b>	<b>PZ-23A</b>	<b>119.9</b>	<b>n/a</b>	<b>10/6/2020</b>	<b>144</b>	<b>Yes</b>	<b>47</b>	<b>2.128</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
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
<b>Chloride (mg/L)</b>	<b>PZ-15</b>	<b>4.705</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>6.6</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Chloride (mg/L)</b>	<b>PZ-16</b>	<b>4.705</b>	<b>n/a</b>	<b>10/6/2020</b>	<b>6.4</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Chloride (mg/L)</b>	<b>PZ-17</b>	<b>4.705</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>5.7</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Chloride (mg/L)</b>	<b>PZ-18</b>	<b>4.705</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>5</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
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
<b>Chloride (mg/L)</b>	<b>PZ-23A</b>	<b>4.705</b>	<b>n/a</b>	<b>10/6/2020</b>	<b>7</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
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
<b>pH (SU)</b>	<b>PZ-18</b>	<b>9.48</b>	<b>6.96</b>	<b>10/7/2020</b>	<b>6.91</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001612</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH (SU)</b>	<b>PZ-19</b>	<b>9.48</b>	<b>6.96</b>	<b>10/7/2020</b>	<b>6.78</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001612</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH (SU)</b>	<b>PZ-23A</b>	<b>9.48</b>	<b>6.96</b>	<b>10/6/2020</b>	<b>6.78</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001612</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH (SU)</b>	<b>PZ-25</b>	<b>9.48</b>	<b>6.96</b>	<b>10/7/2020</b>	<b>6.95</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001612</b>	<b>NP Inter (normality) 1 of 2</b>
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
<b>Sulfate (mg/L)</b>	<b>PZ-14</b>	<b>7.172</b>	<b>n/a</b>	<b>10/6/2020</b>	<b>11</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-15</b>	<b>7.172</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>80.7</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-16</b>	<b>7.172</b>	<b>n/a</b>	<b>10/6/2020</b>	<b>42.4</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-17</b>	<b>7.172</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>89.1</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-18</b>	<b>7.172</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>87.3</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-19</b>	<b>7.172</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>83.3</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-23A</b>	<b>7.172</b>	<b>n/a</b>	<b>10/6/2020</b>	<b>71.2</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-25</b>	<b>7.172</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>38.1</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-33</b>	<b>7.172</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>54.6</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-7D</b>	<b>7.172</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>48.9</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
TDS (mg/L)	PZ-14	314	n/a	10/6/2020	241	No	48	0	None	No	0.0007523	Param Inter 1 of 2
<b>TDS (mg/L)</b>	<b>PZ-15</b>	<b>314</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>336</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
TDS (mg/L)	PZ-16	314	n/a	10/6/2020	261	No	48	0	None	No	0.0007523	Param Inter 1 of 2
<b>TDS (mg/L)</b>	<b>PZ-17</b>	<b>314</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>392</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>TDS (mg/L)</b>	<b>PZ-18</b>	<b>314</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>425</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>TDS (mg/L)</b>	<b>PZ-19</b>	<b>314</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>492</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>TDS (mg/L)</b>	<b>PZ-23A</b>	<b>314</b>	<b>n/a</b>	<b>10/6/2020</b>	<b>462</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
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
<b>Boron (mg/L)</b>	<b>PZ-7D</b>	<b>-0.04195</b>	<b>-41</b>	<b>-38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>PZ-18</b>	<b>5.393</b>	<b>40</b>	<b>38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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
<b>Chloride (mg/L)</b>	<b>PZ-31 (bg)</b>	<b>-0.4113</b>	<b>-43</b>	<b>-38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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
<b>Sulfate (mg/L)</b>	<b>PZ-14</b>	<b>1.958</b>	<b>47</b>	<b>38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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
<b>Sulfate (mg/L)</b>	<b>PZ-23A</b>	<b>5.866</b>	<b>58</b>	<b>38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>PZ-25</b>	<b>-3.585</b>	<b>-42</b>	<b>-38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	PZ-2D (bg)	-0.8052	-26	-38	No	12	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>PZ-31 (bg)</b>	<b>-1.363</b>	<b>-43</b>	<b>-38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	PZ-32 (bg)	0.03898	11	38	No	12	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>PZ-33</b>	<b>-10.95</b>	<b>-54</b>	<b>-38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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
<b>TDS (mg/L)</b>	<b>PZ-23A</b>	<b>15.05</b>	<b>44</b>	<b>38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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.	Bq 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)



<b>PLANT MITCHELL ASH POND GWPS</b>			
<b>Constituent Name</b>	<b>MCL</b>	<b>Background Limit</b>	<b>GWPS</b>
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)

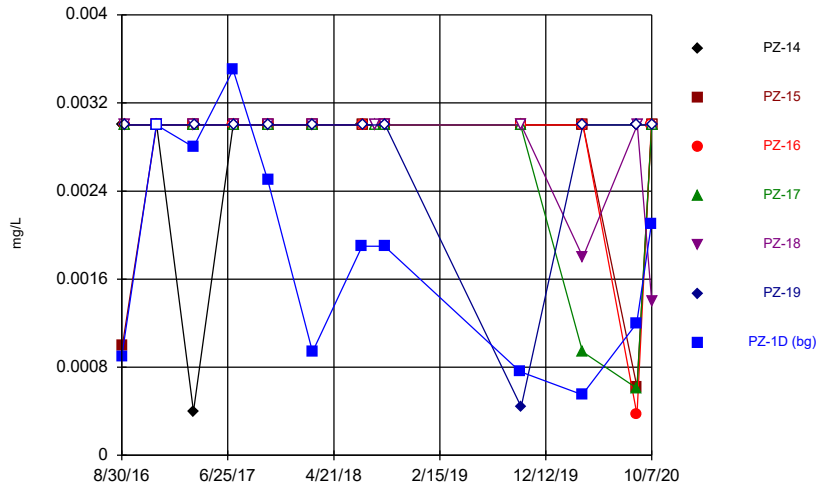
# Confidence Intervals Summary - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 4:07 PM

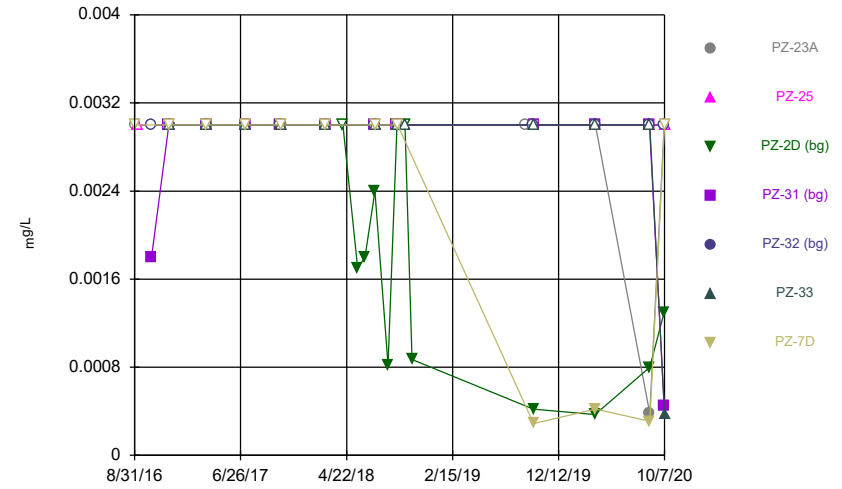
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	PZ-15	0.005	0.00005	0.005	No	12	0.004587	0.001429	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-16	0.005	0.000081	0.005	No	12	0.00459	0.00142	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-18	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.

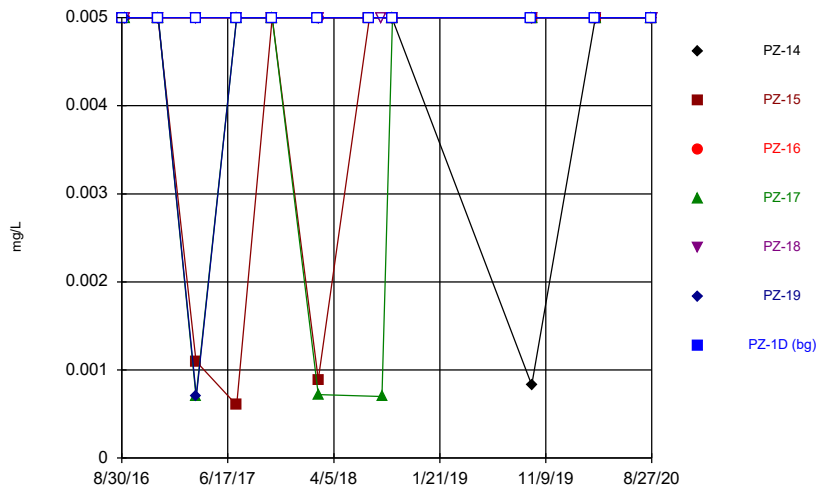
Time Series



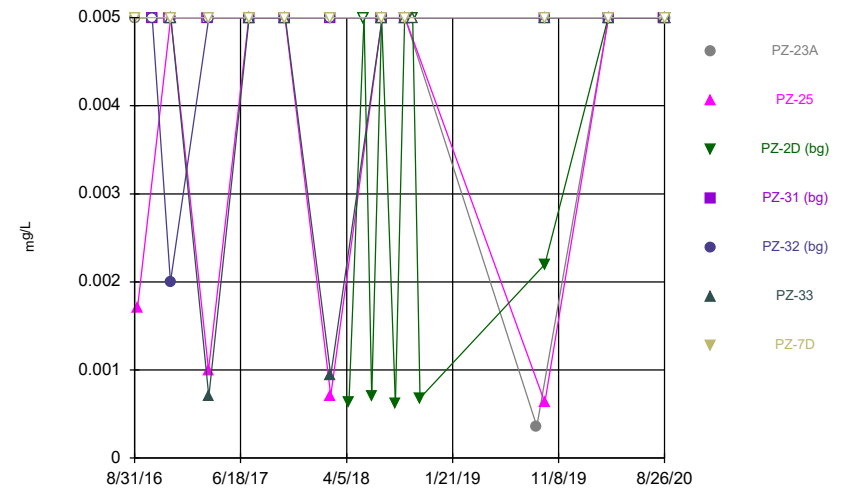
Time Series



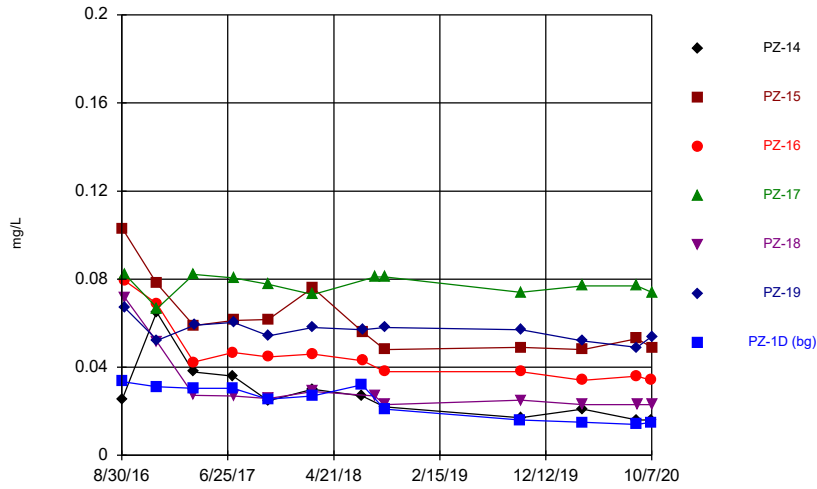
Time Series



Time Series

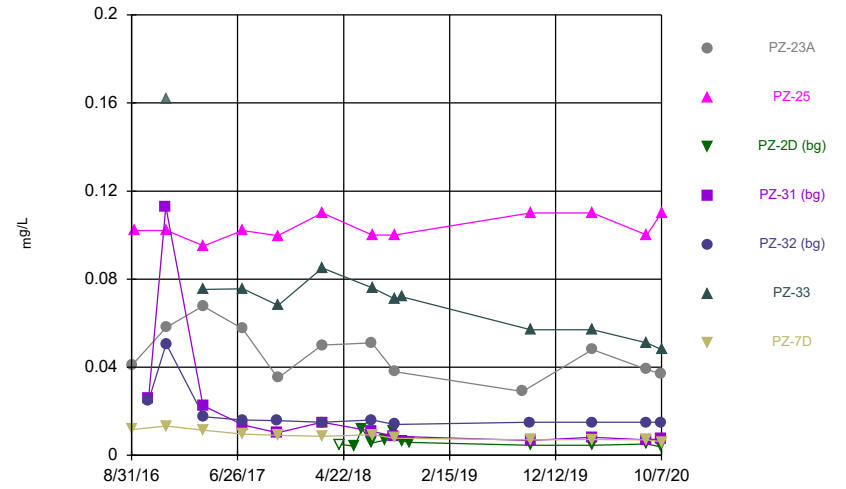


Time Series



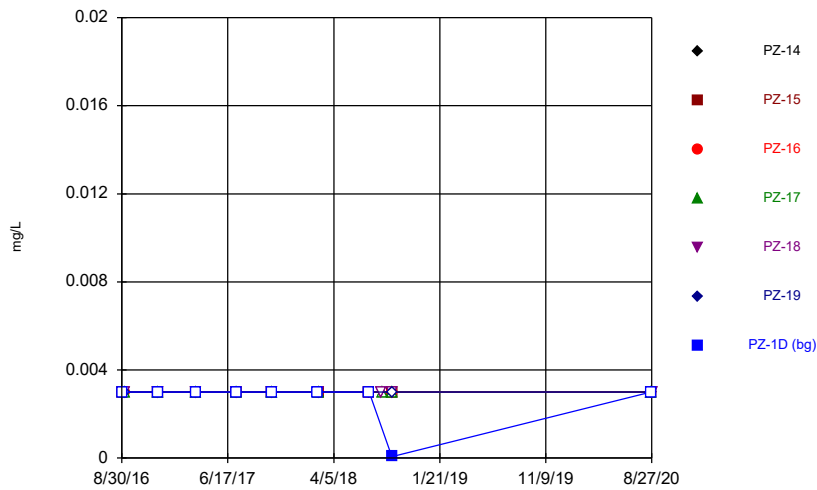
Constituent: Barium Analysis Run 12/8/2020 1:34 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



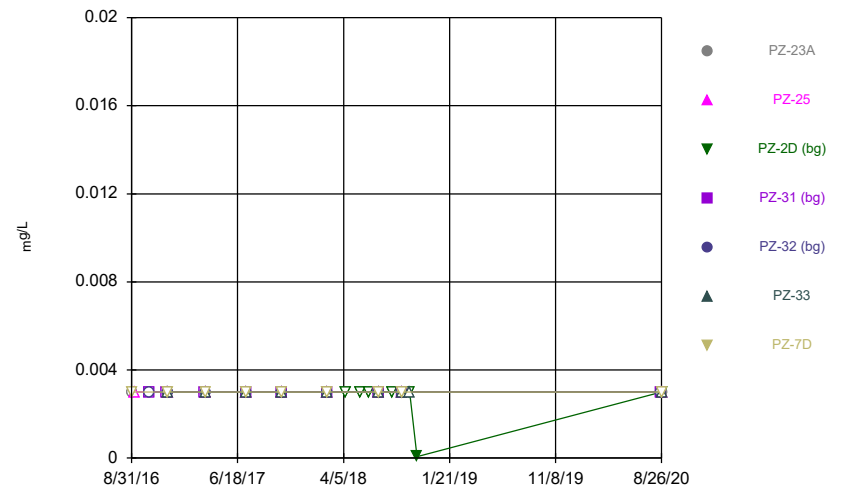
Constituent: Barium Analysis Run 12/8/2020 1:34 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



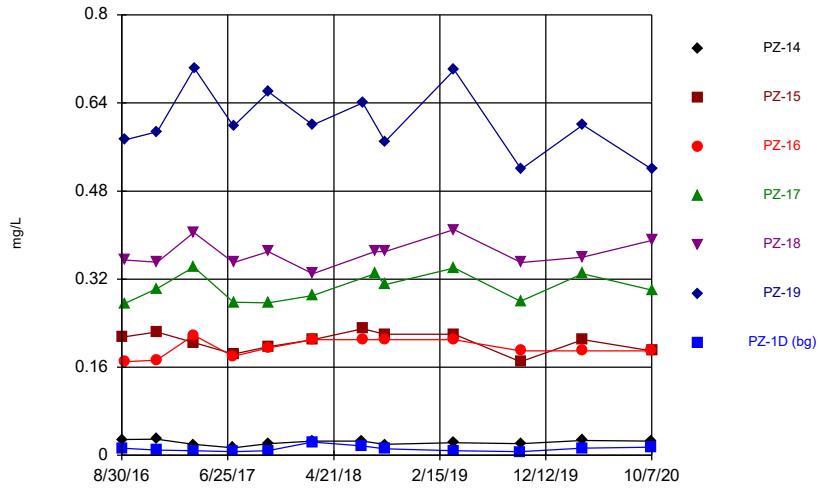
Constituent: Beryllium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



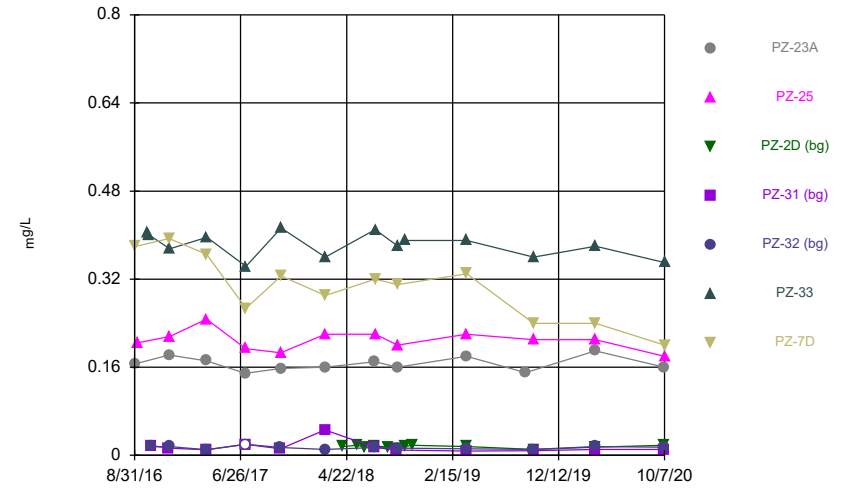
Constituent: Beryllium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



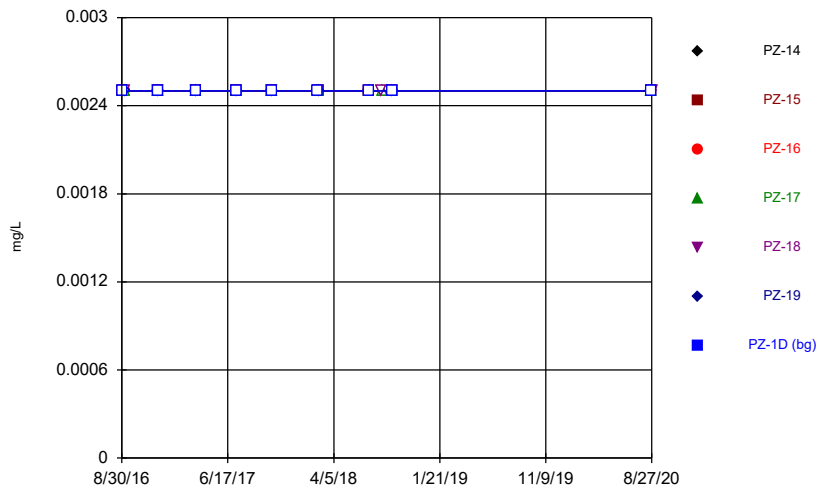
Constituent: Boron Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



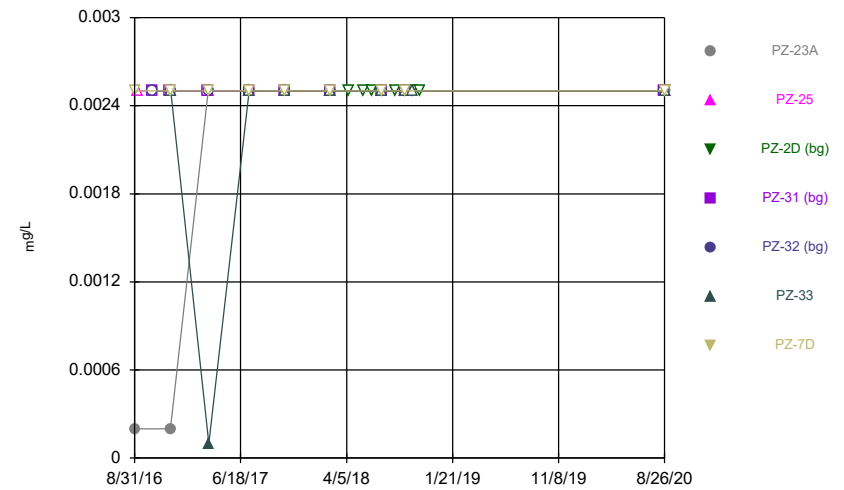
Constituent: Boron Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



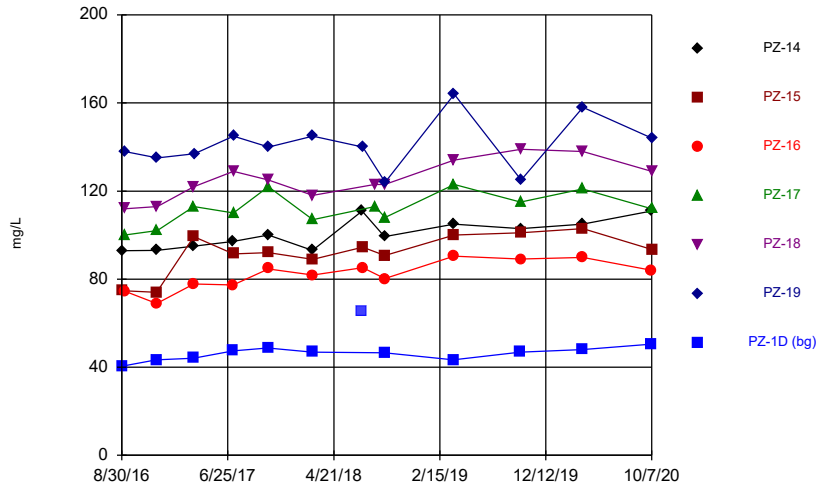
Constituent: Cadmium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



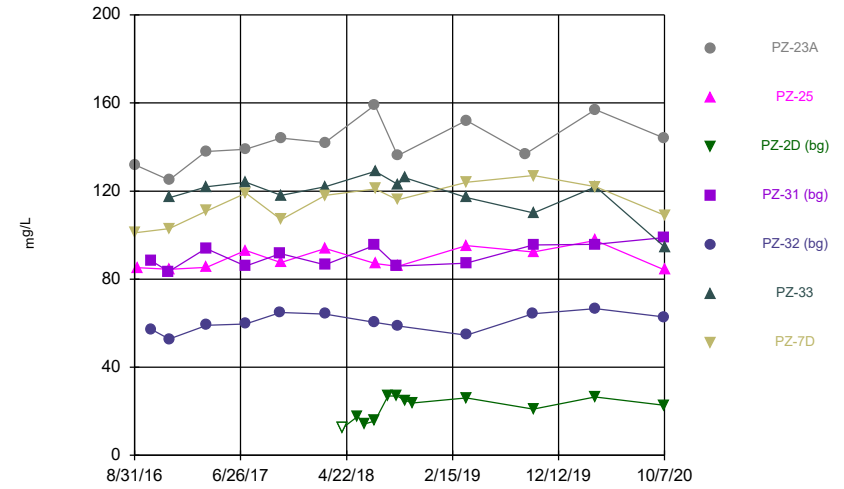
Constituent: Cadmium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Time Series



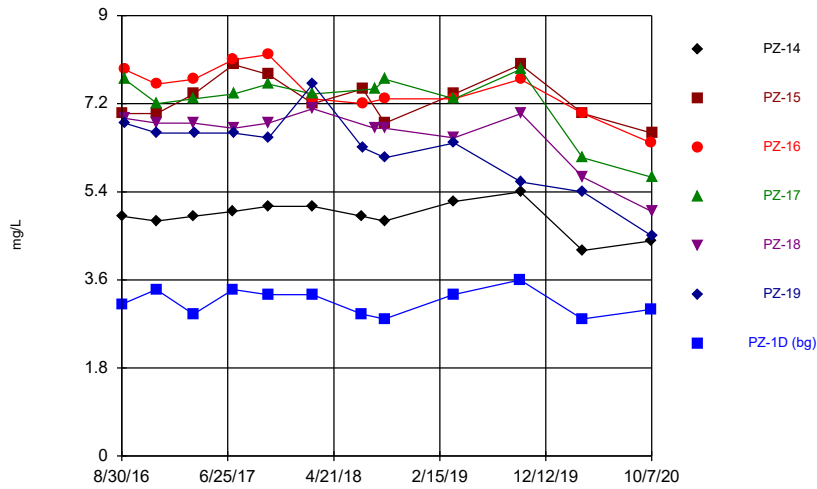
Constituent: Calcium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Time Series



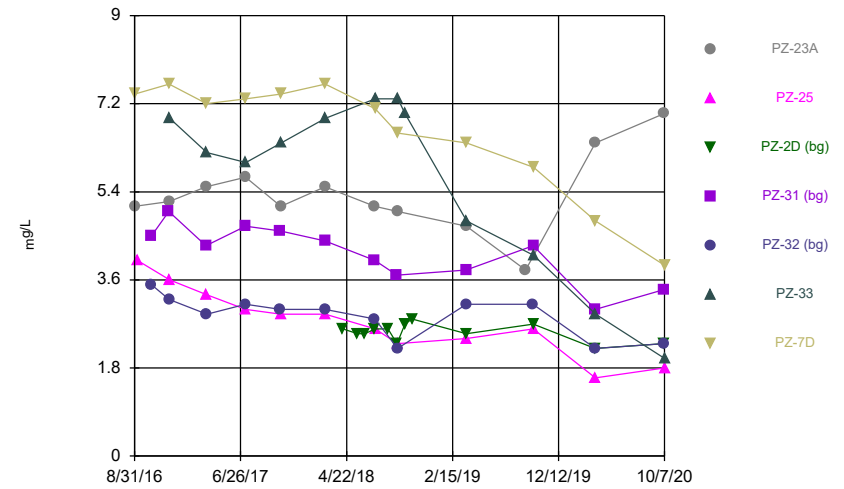
Constituent: Calcium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Time Series



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

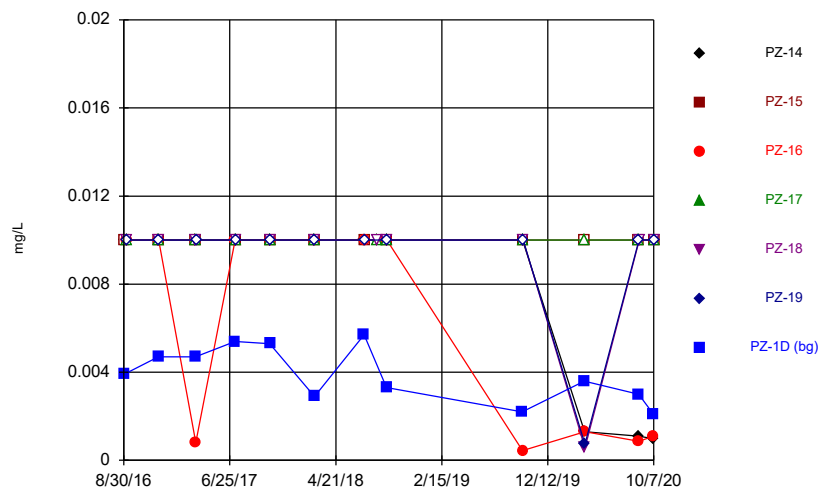
### Time Series



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

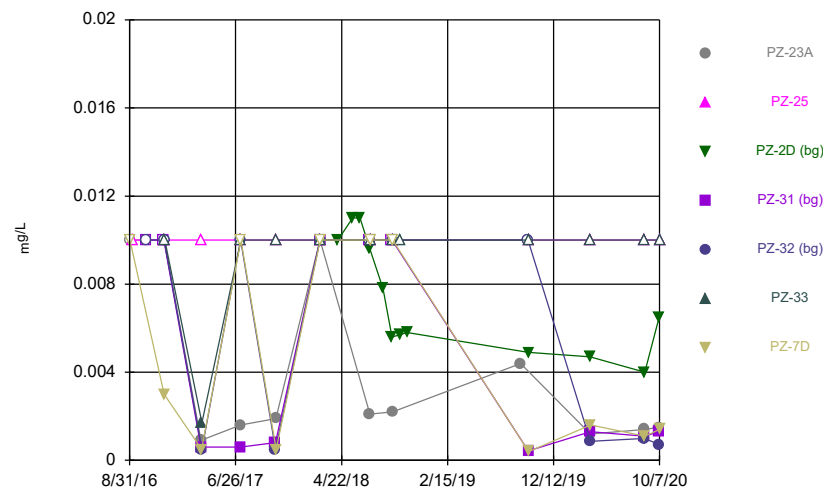


Time Series



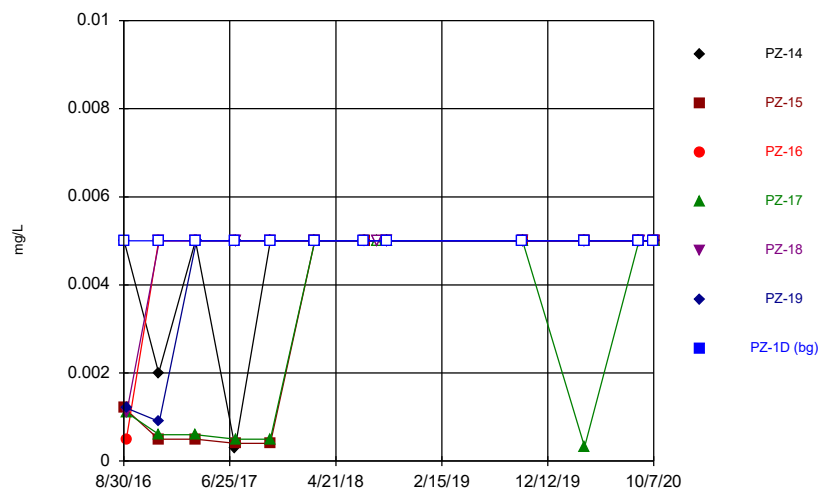
Constituent: Chromium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



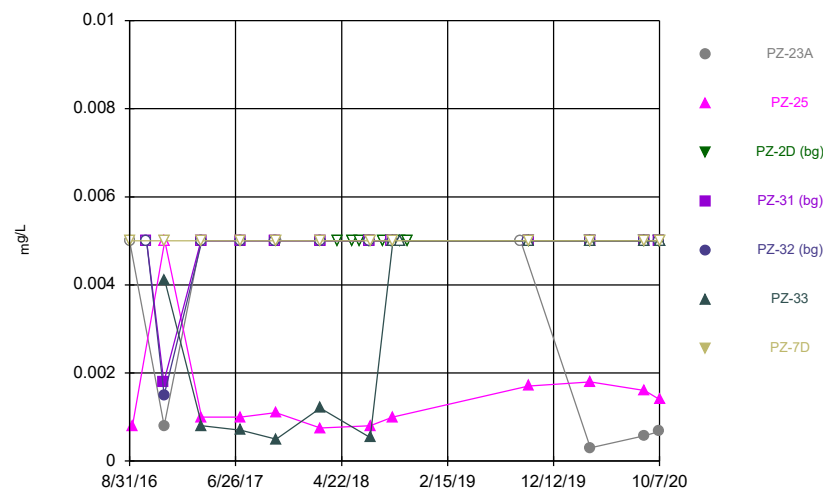
Constituent: Chromium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



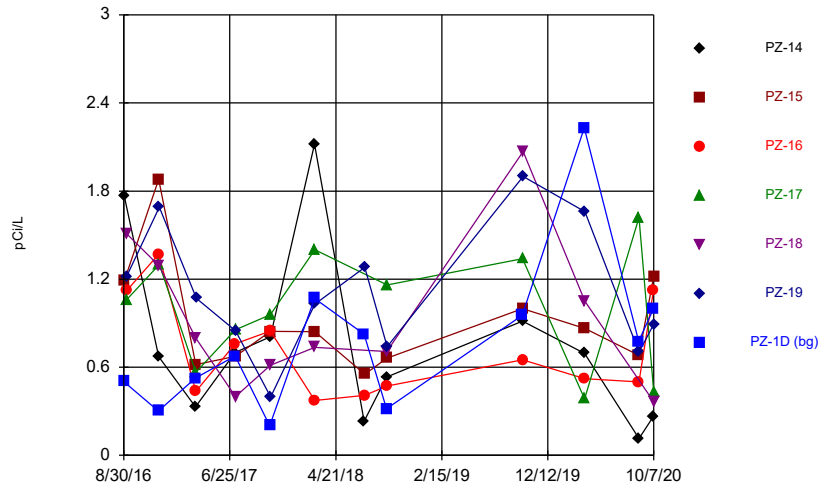
Constituent: Cobalt Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



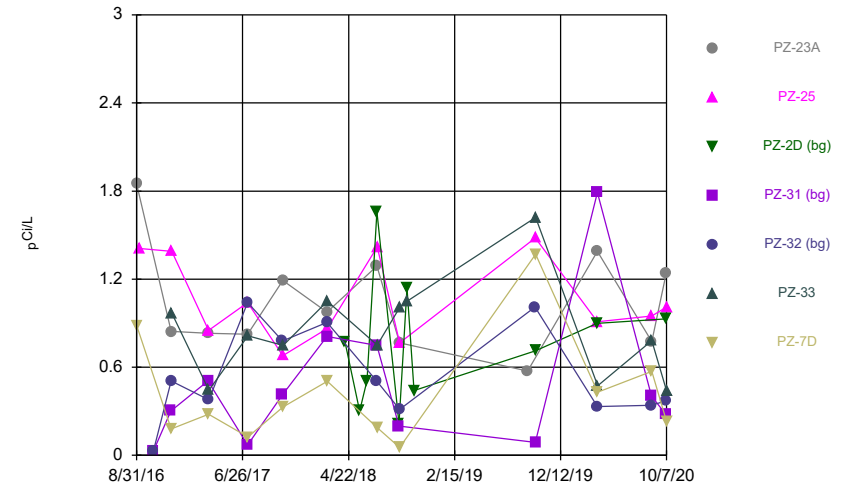
Constituent: Cobalt Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



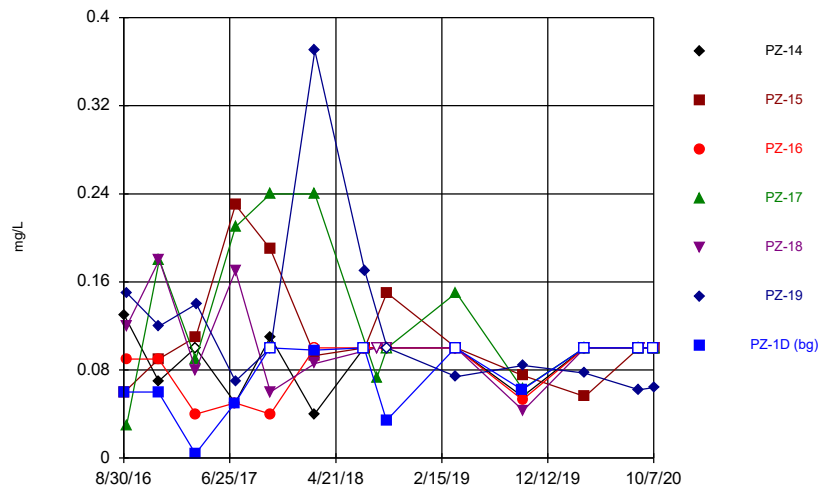
Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



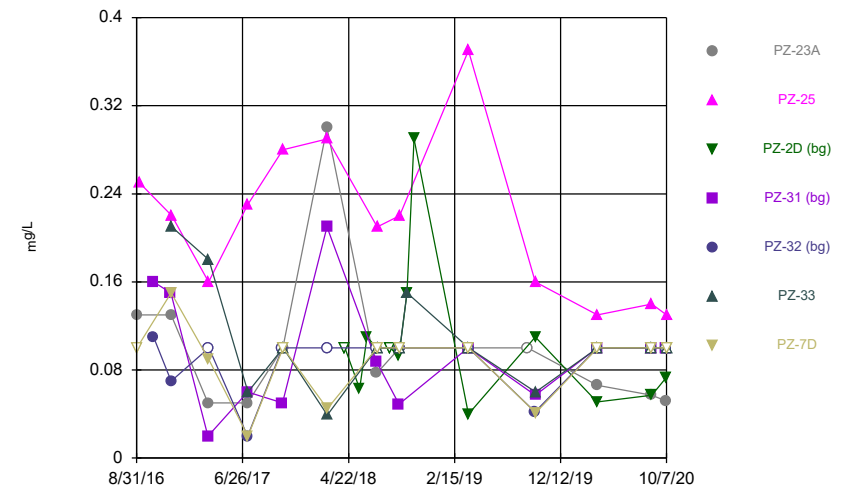
Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



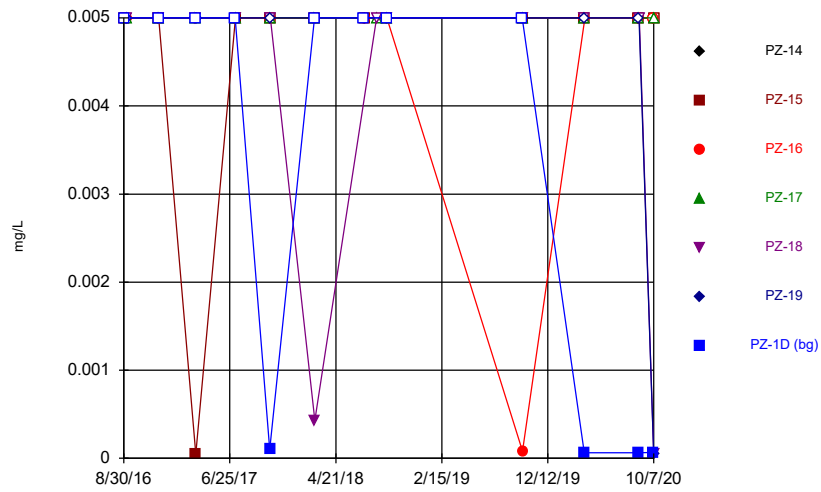
Constituent: Fluoride Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



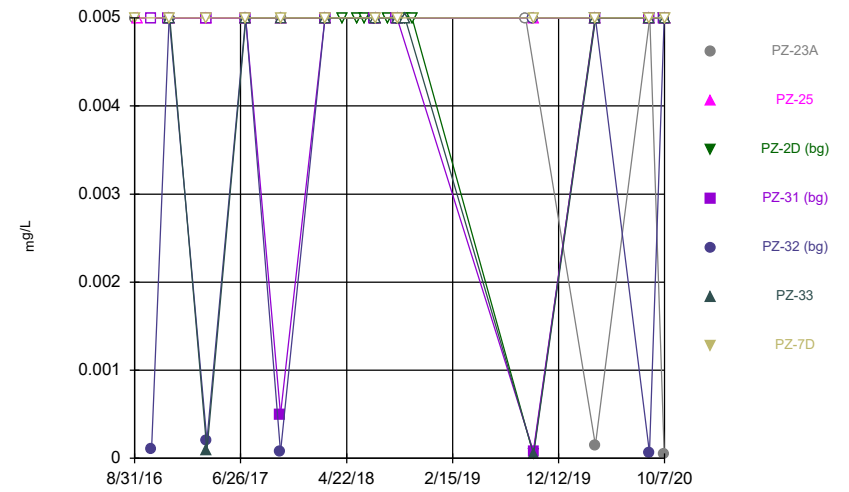
Constituent: Fluoride Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



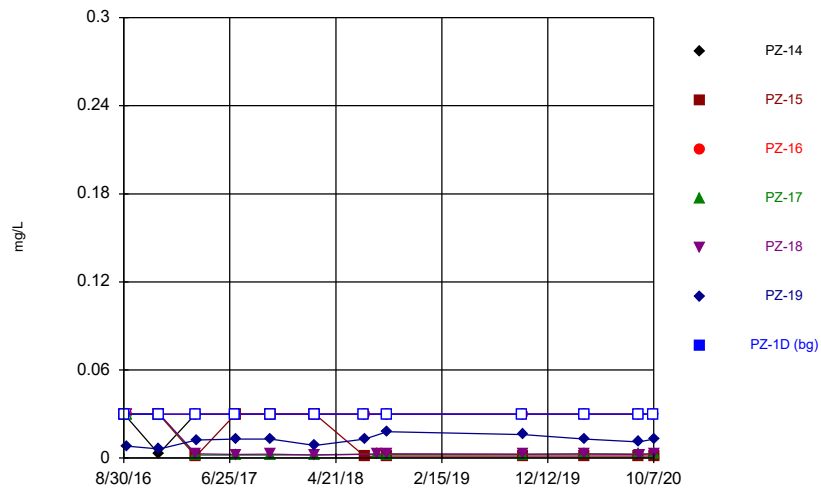
Constituent: Lead Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



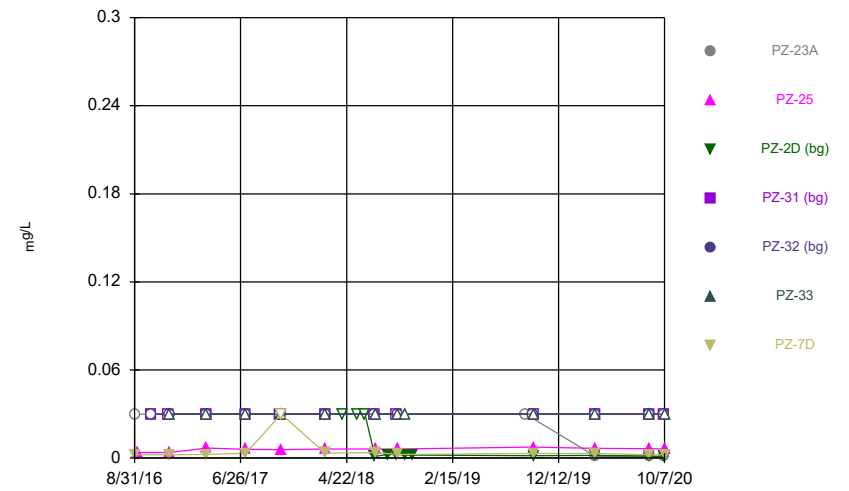
Constituent: Lead Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



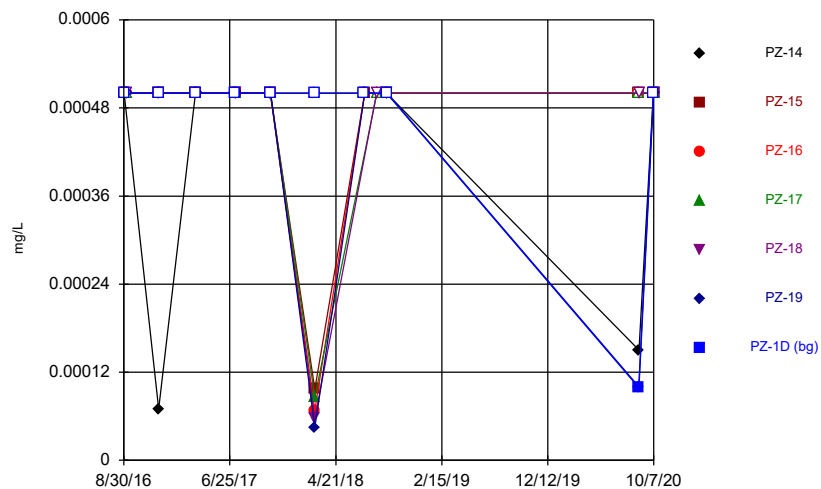
Constituent: Lithium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



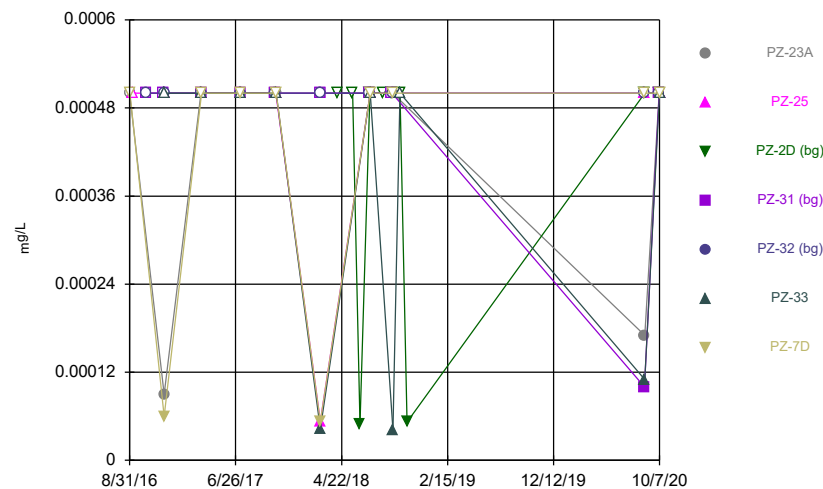
Constituent: Lithium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Time Series



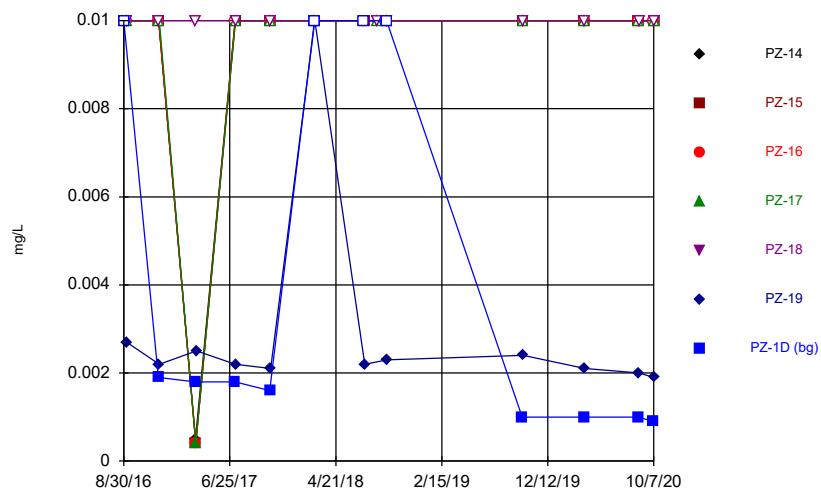
Constituent: Mercury Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Time Series



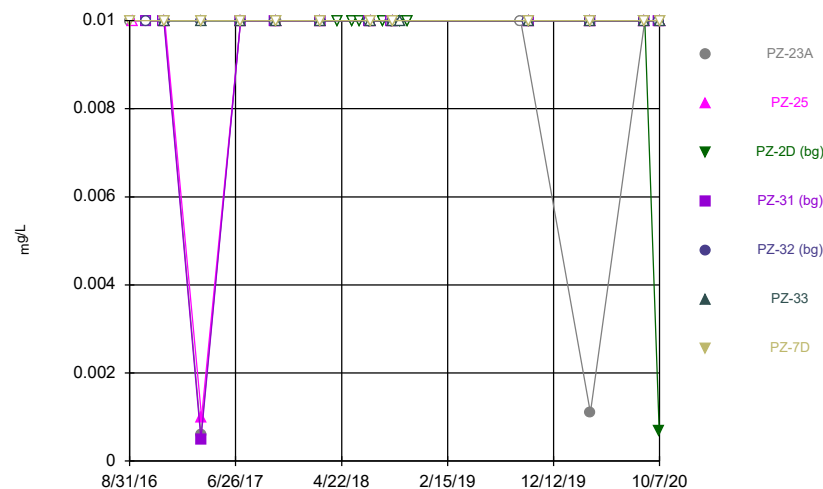
Constituent: Mercury Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Time Series



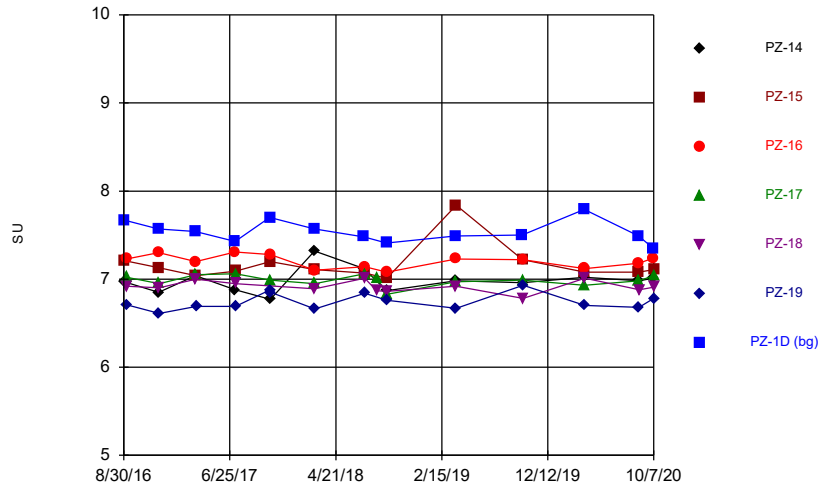
Constituent: Molybdenum Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Time Series



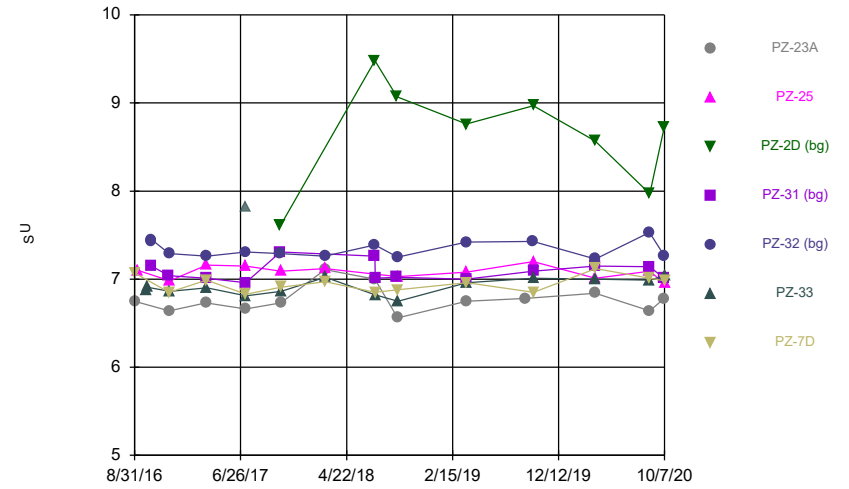
Constituent: Molybdenum Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Time Series



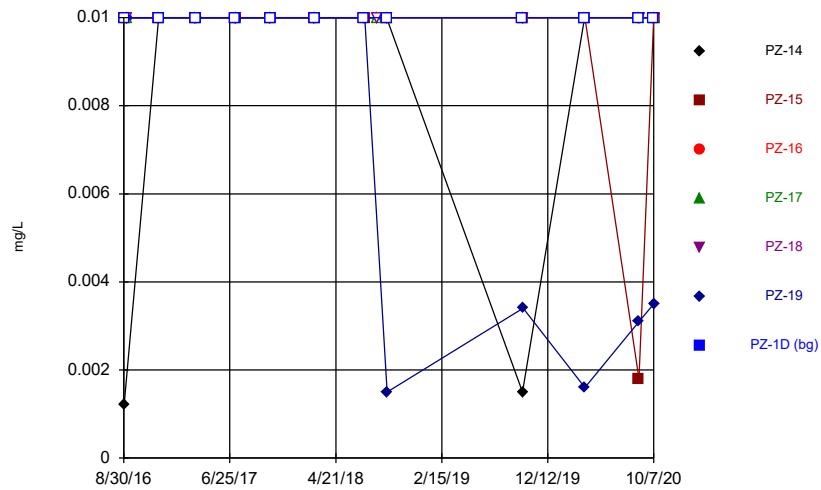
Constituent: pH Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Time Series



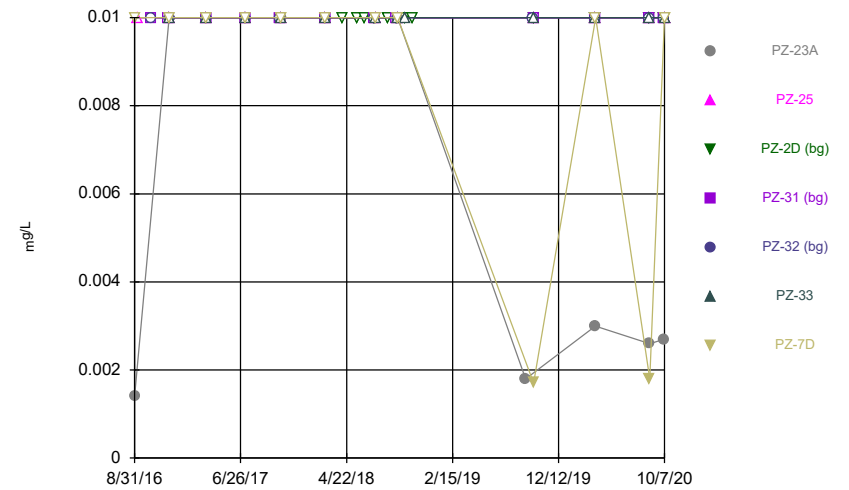
Constituent: pH Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Time Series



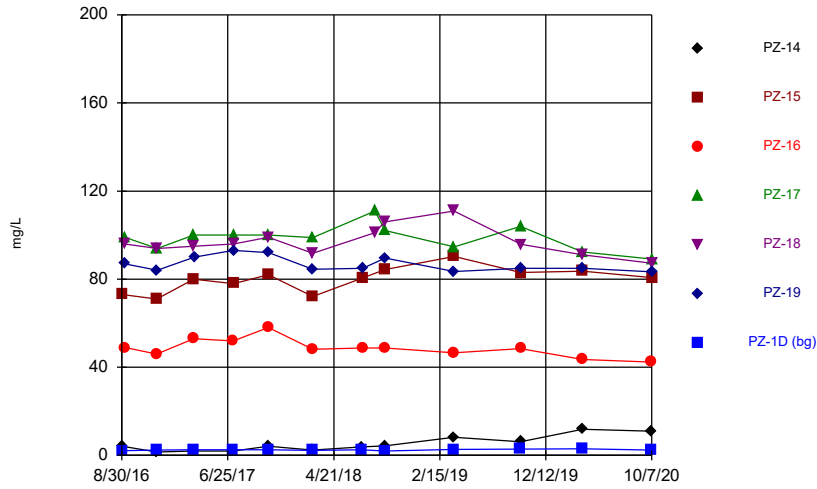
Constituent: Selenium Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Time Series



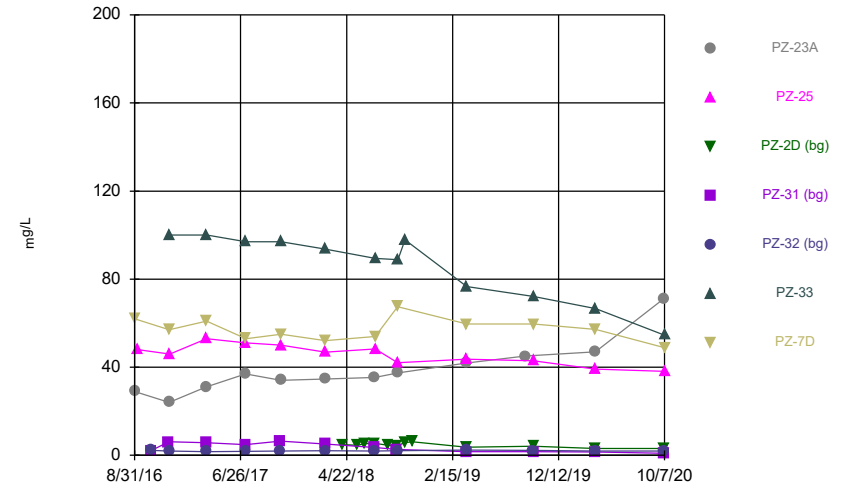
Constituent: Selenium Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



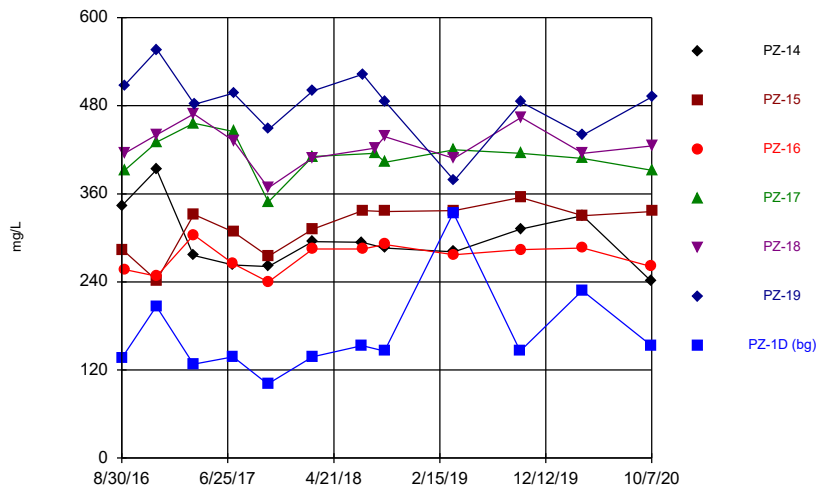
Constituent: Sulfate Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



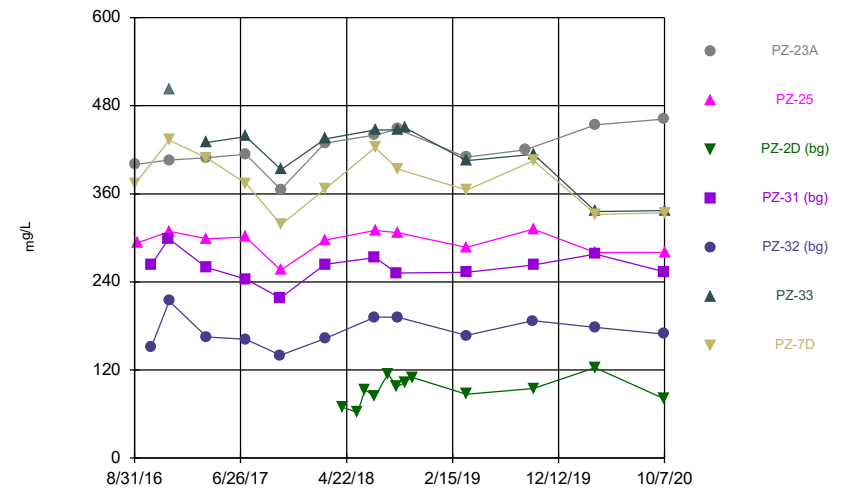
Constituent: Sulfate Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



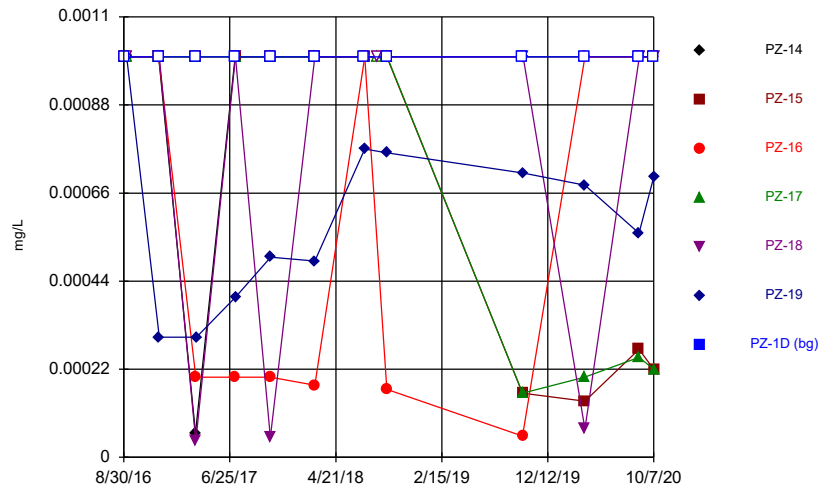
Constituent: TDS Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



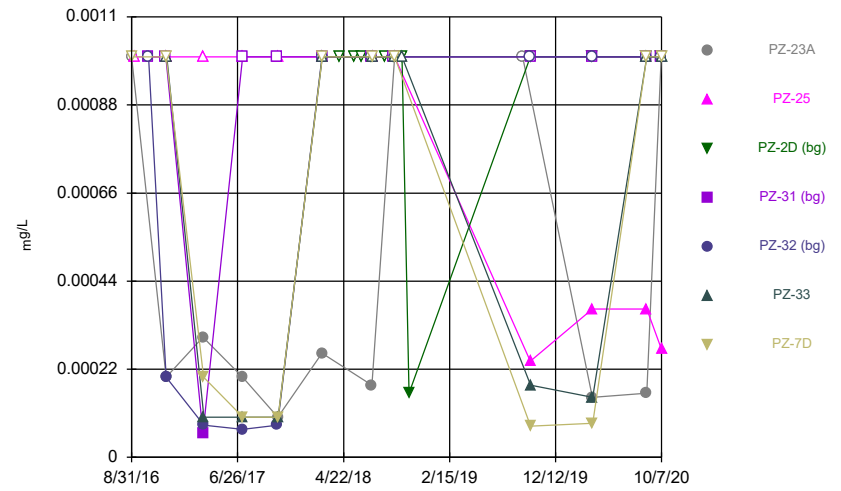
Constituent: TDS Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



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: 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	<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						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)	



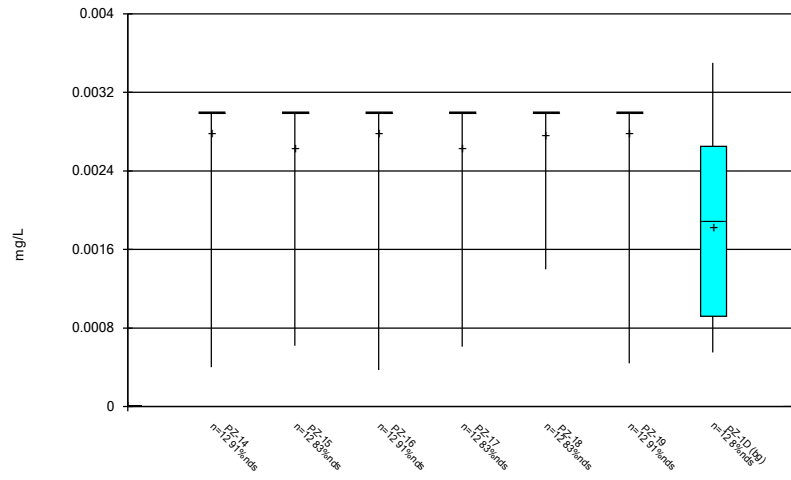
# Time Series

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

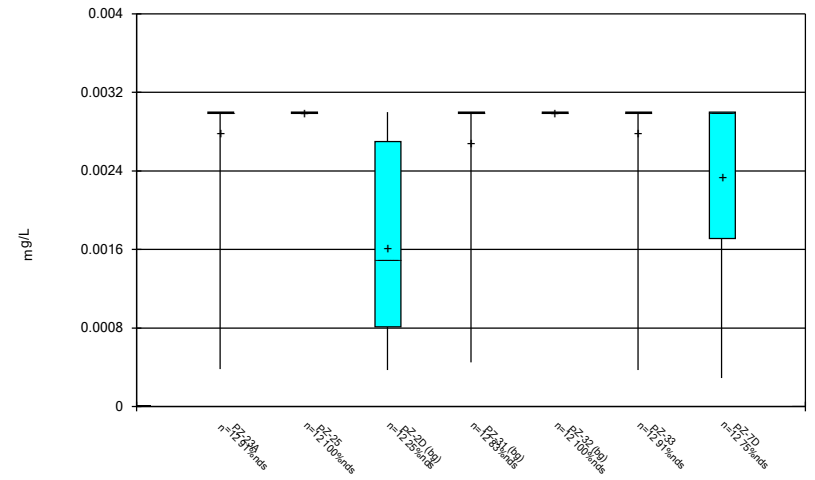
FIGURE B.

Box & Whiskers Plot



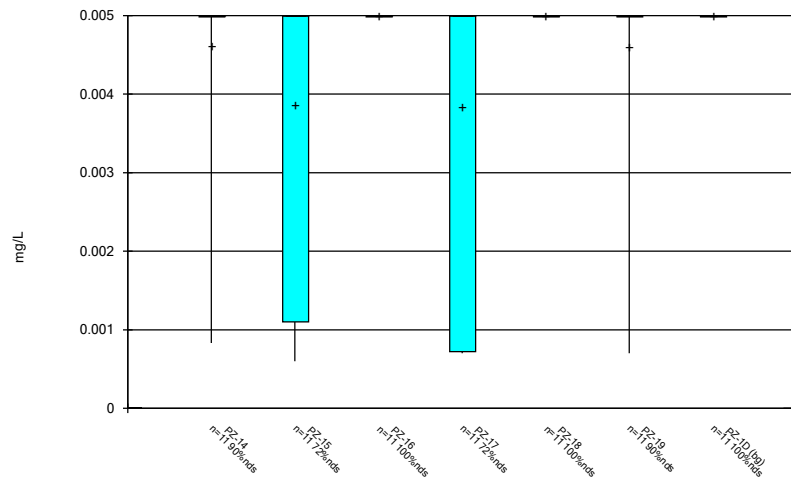
Constituent: Antimony Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



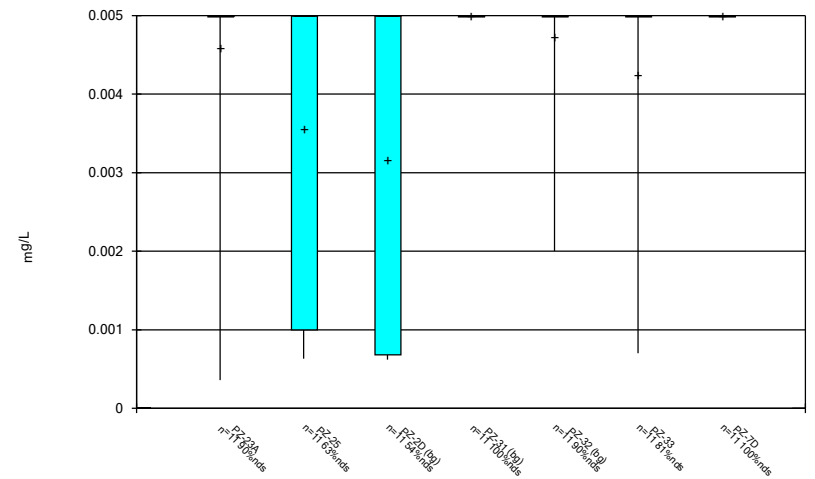
Constituent: Antimony Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



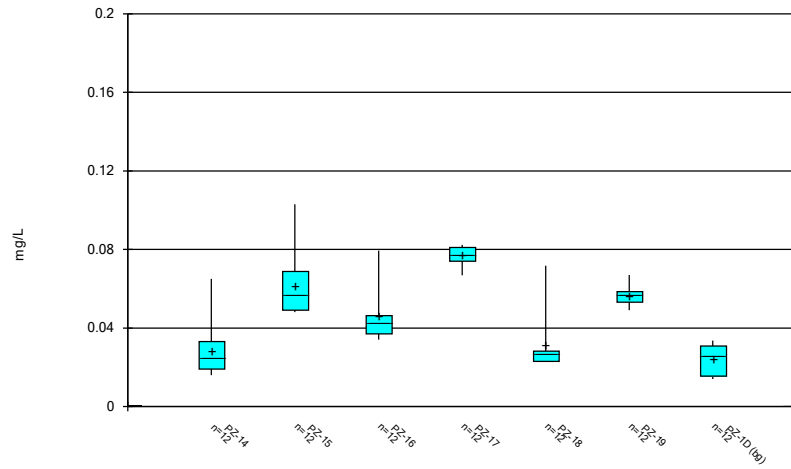
Constituent: Arsenic Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



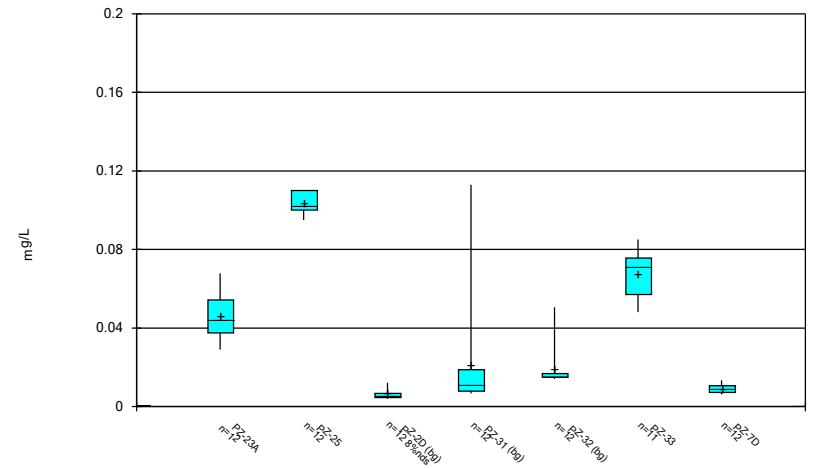
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



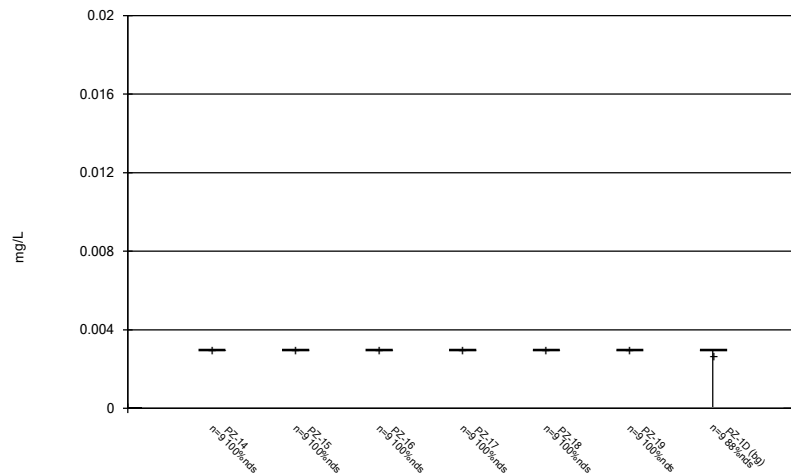
Constituent: Barium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



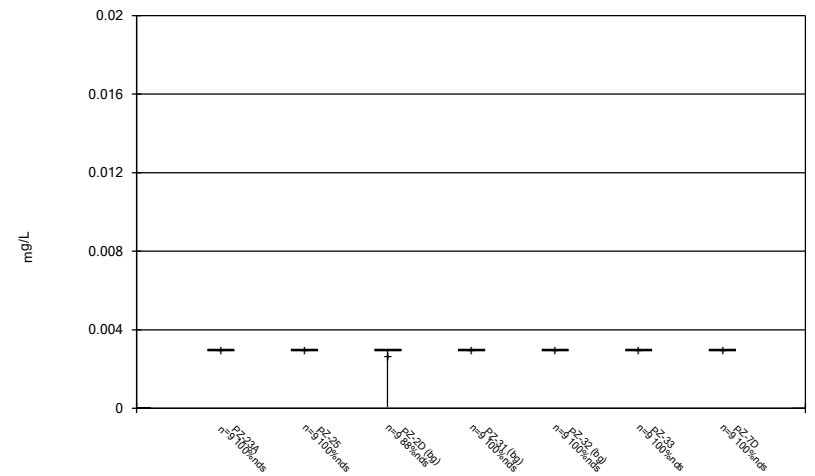
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



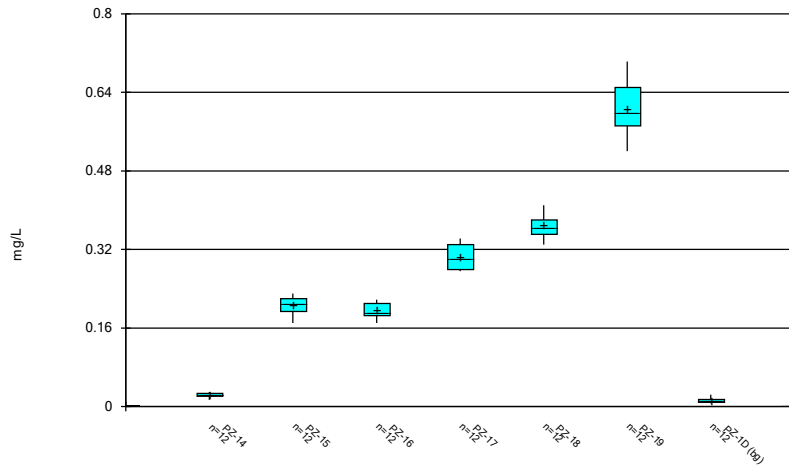
Constituent: Beryllium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



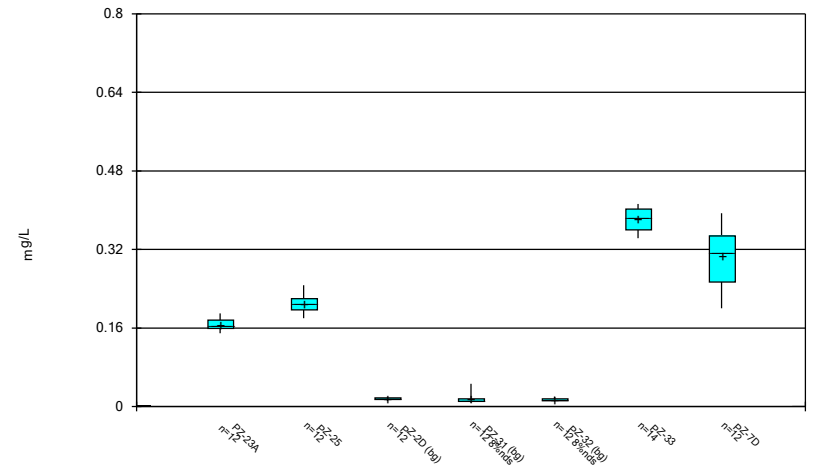
Constituent: Beryllium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



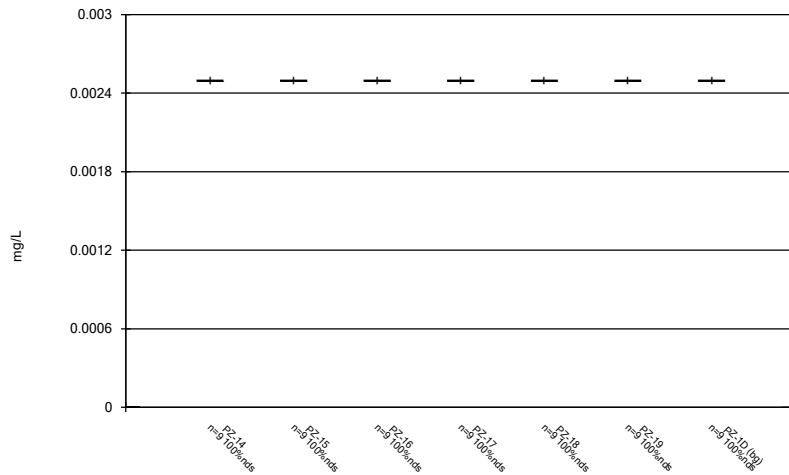
Constituent: Boron Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



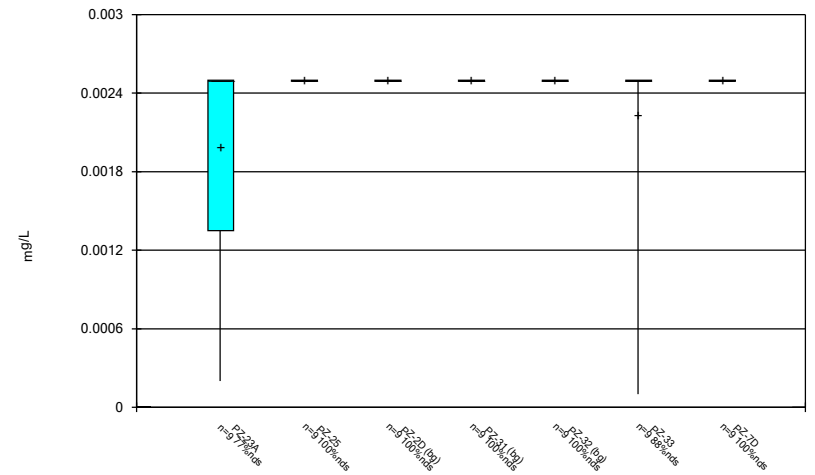
Constituent: Boron Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



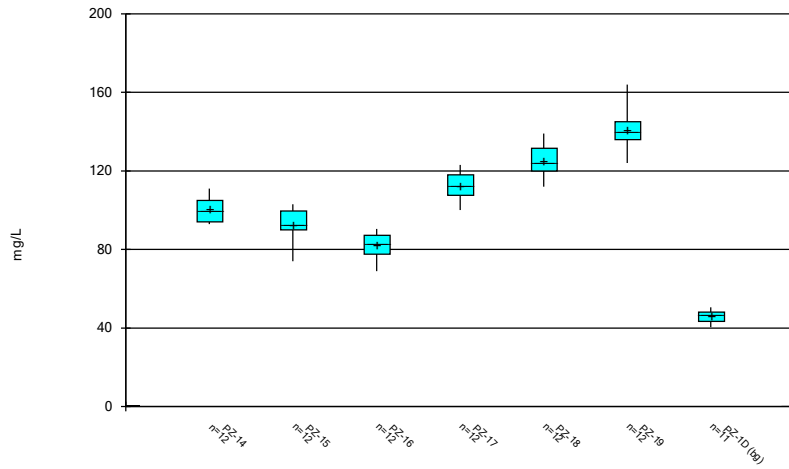
Constituent: Cadmium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



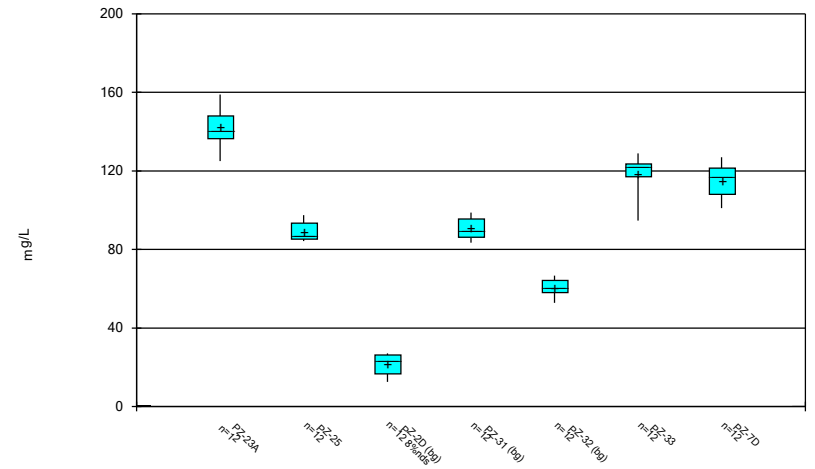
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



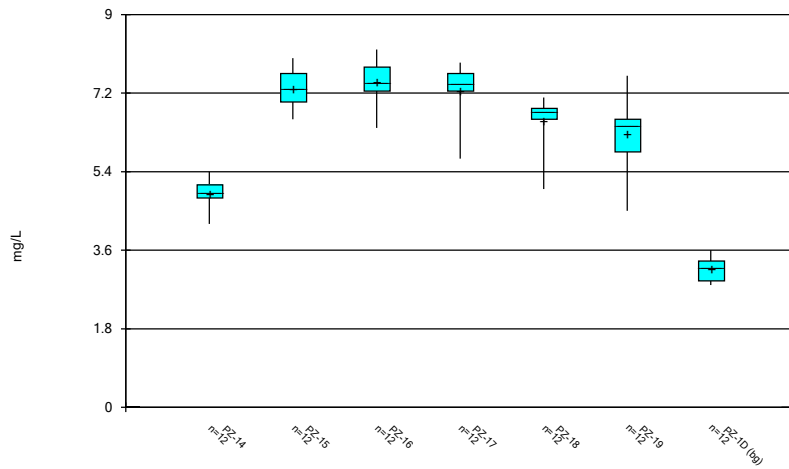
Constituent: Calcium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



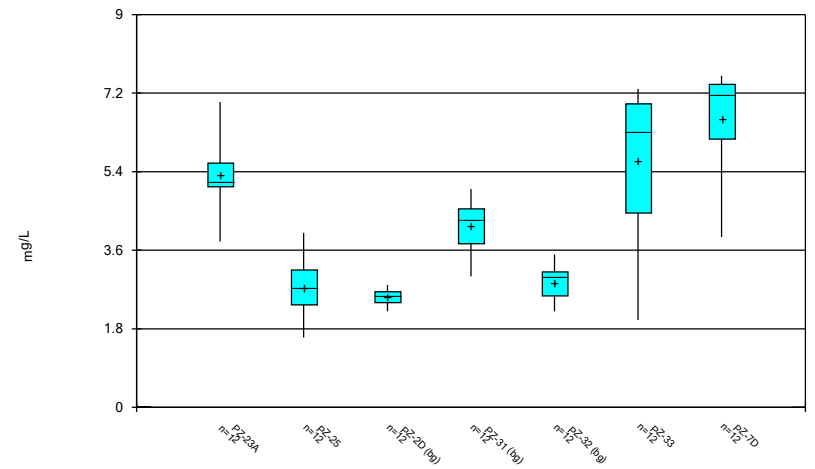
Constituent: Calcium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



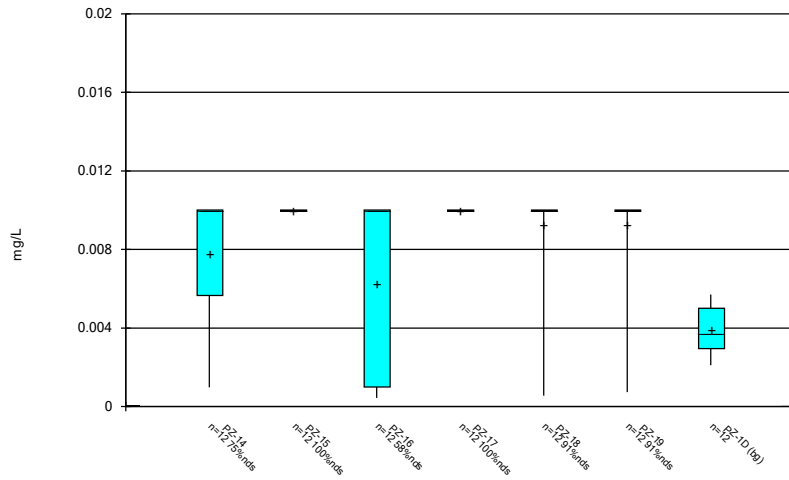
Constituent: Chloride Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



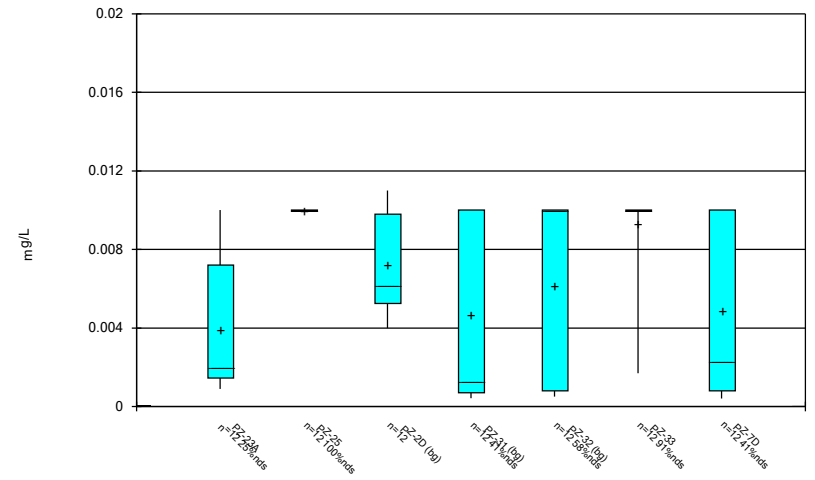
Constituent: Chloride Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



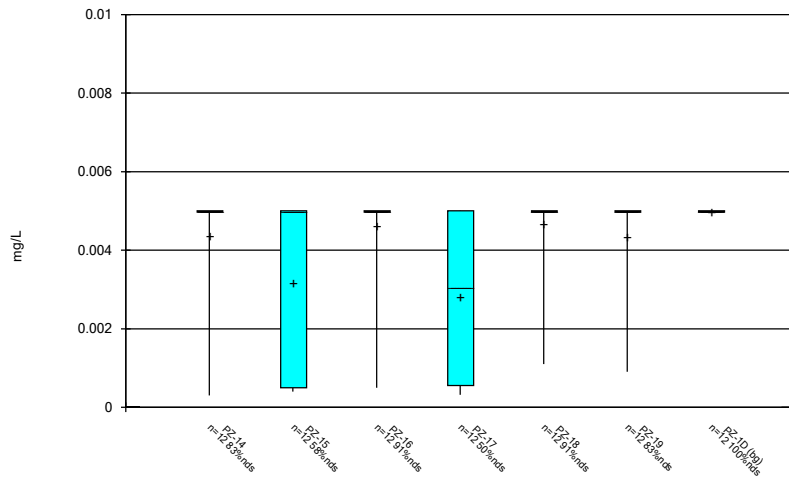
Constituent: Chromium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



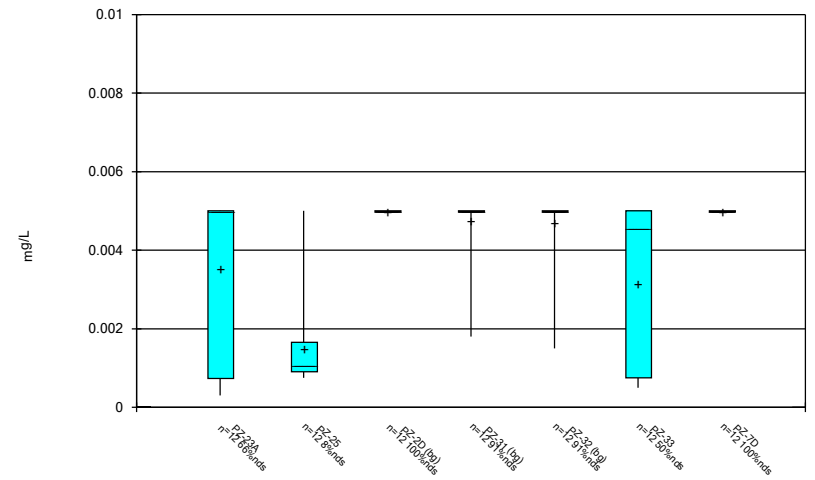
Constituent: Chromium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



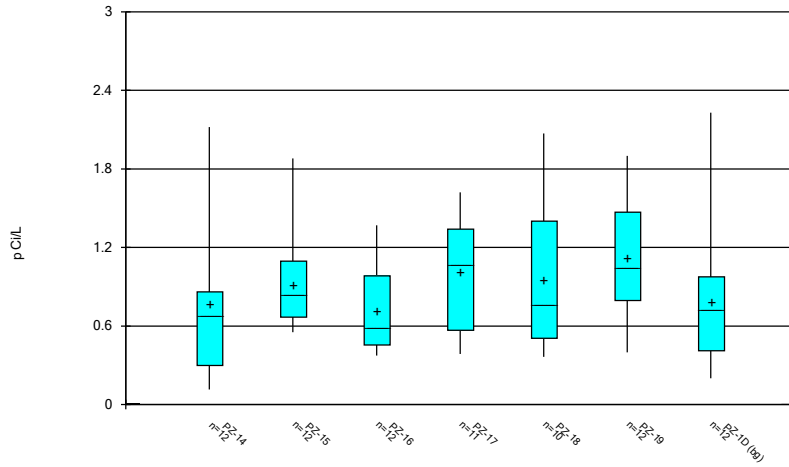
Constituent: Cobalt Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



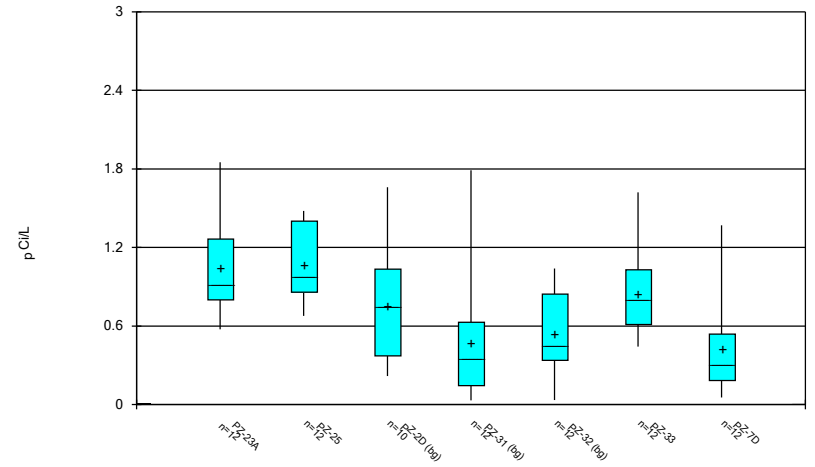
Constituent: Cobalt Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



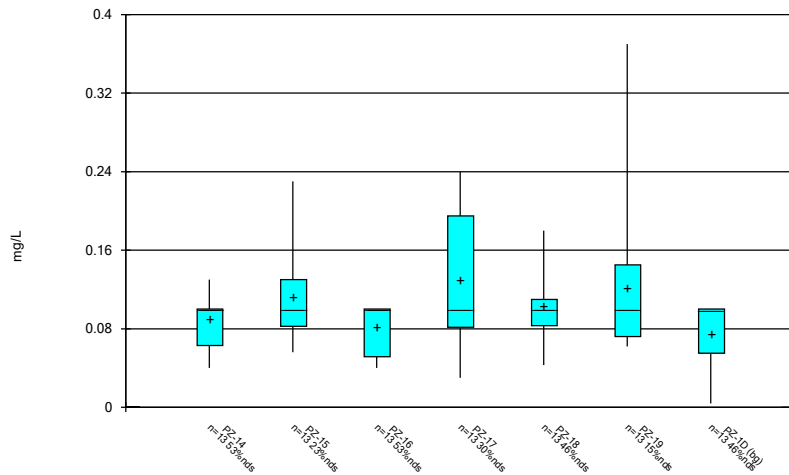
Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



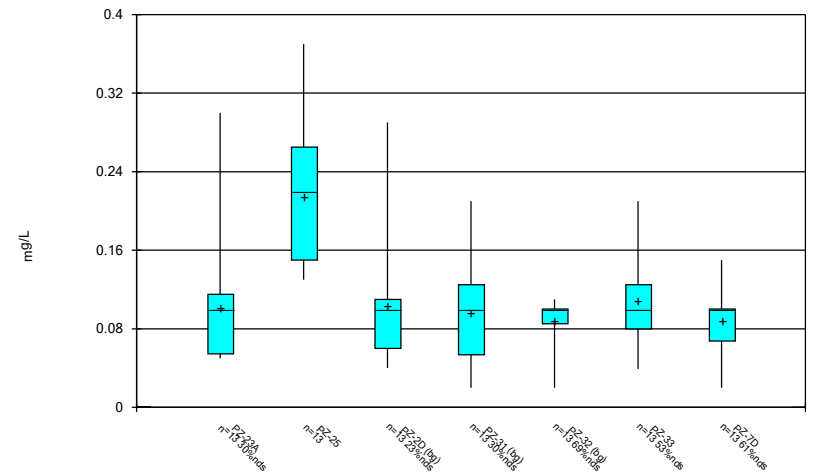
Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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

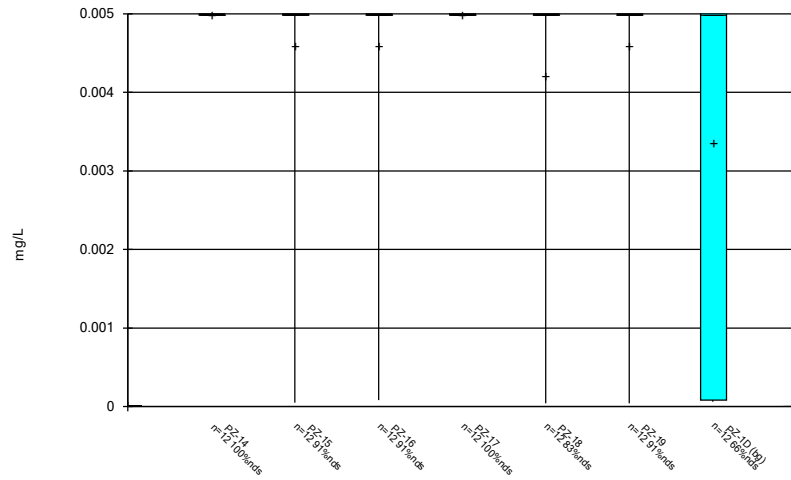
Box & Whiskers Plot



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

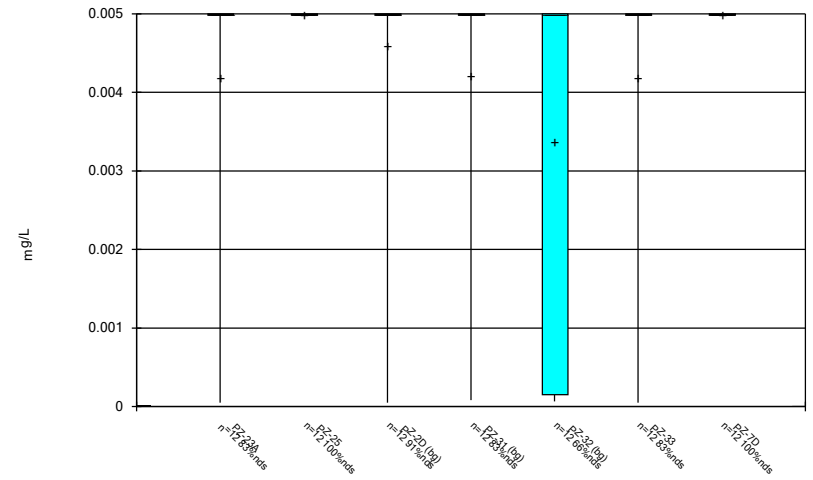


Box & Whiskers Plot



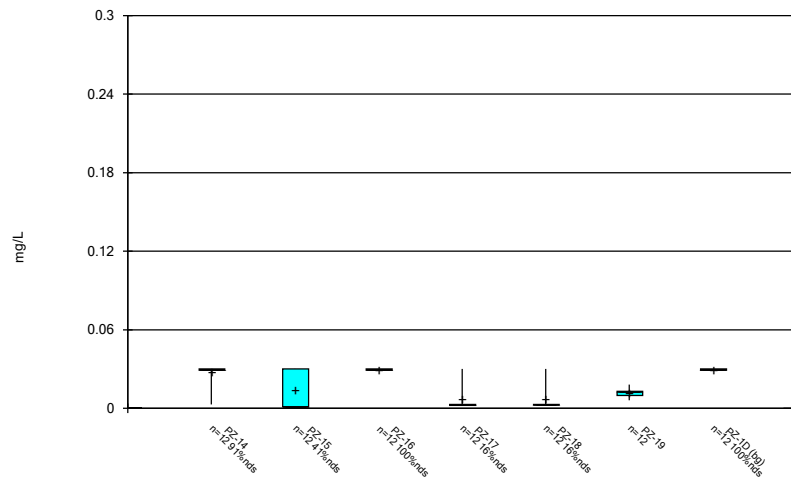
Constituent: Lead Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



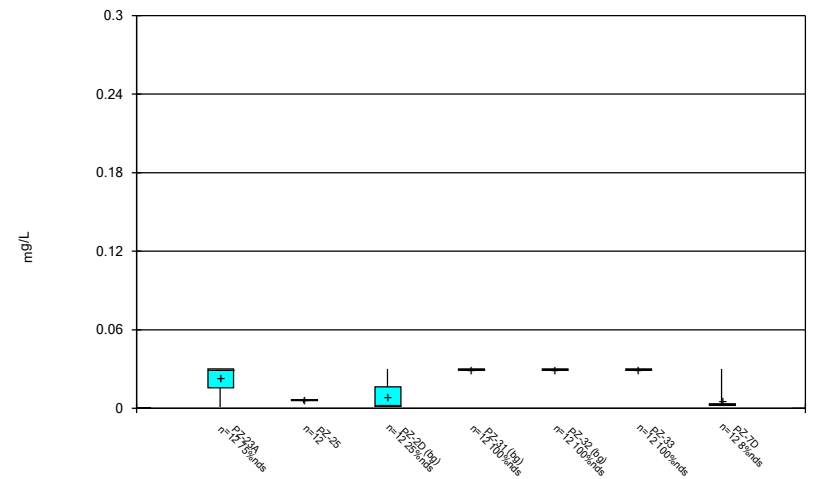
Constituent: Lead Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



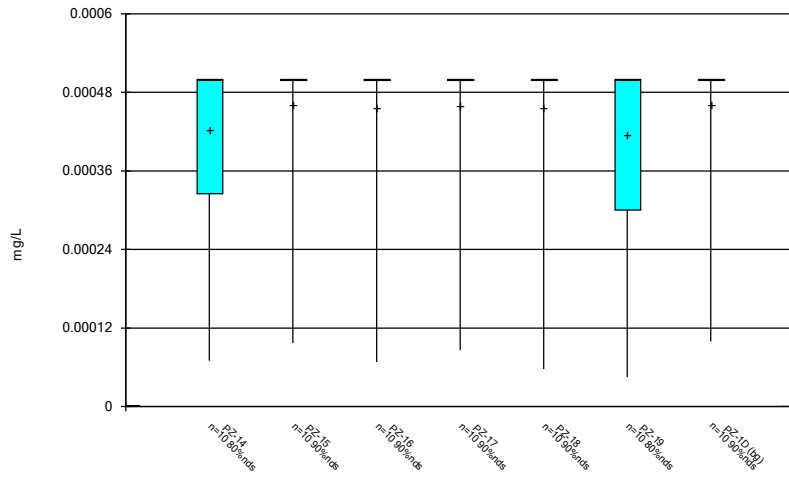
Constituent: Lithium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



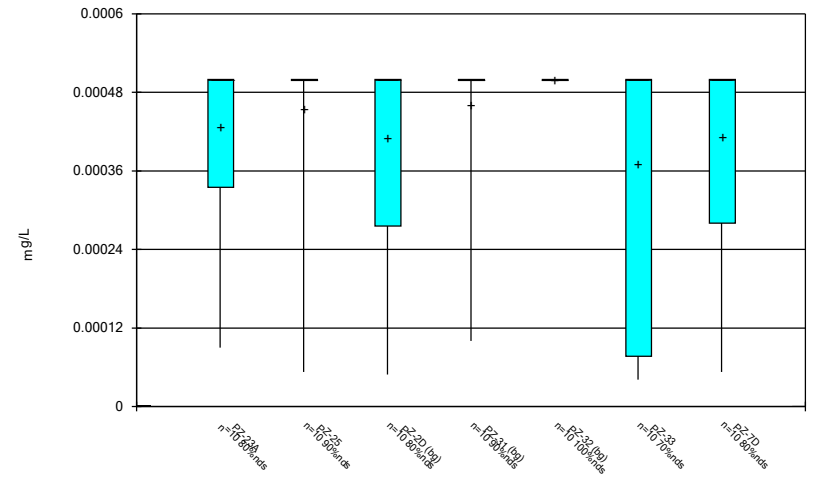
Constituent: Lithium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



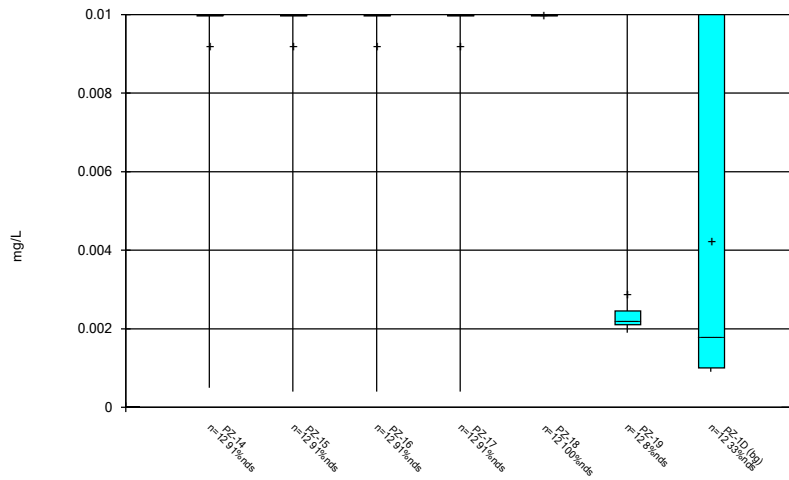
Constituent: Mercury Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



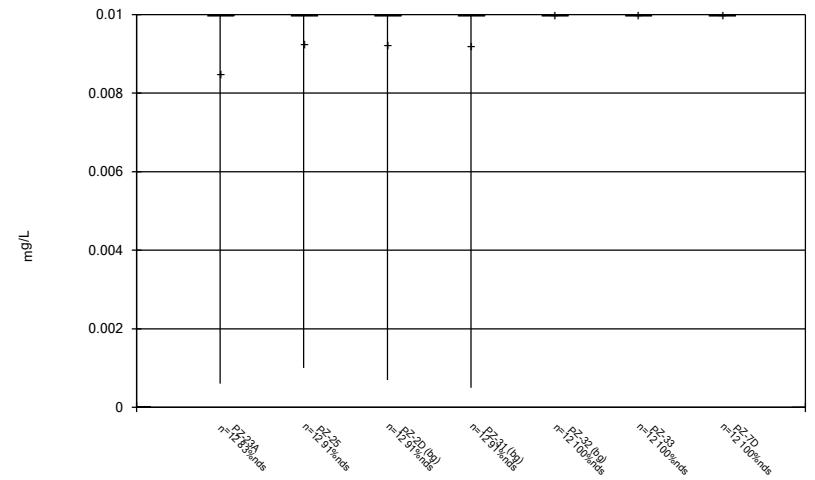
Constituent: Mercury Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



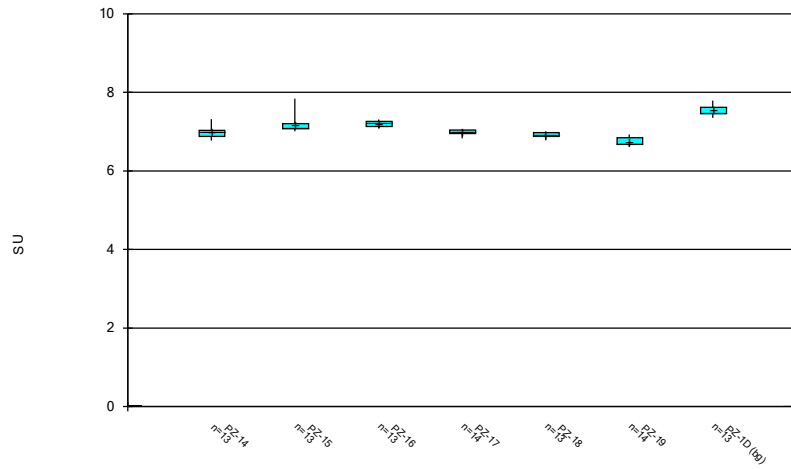
Constituent: Molybdenum Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



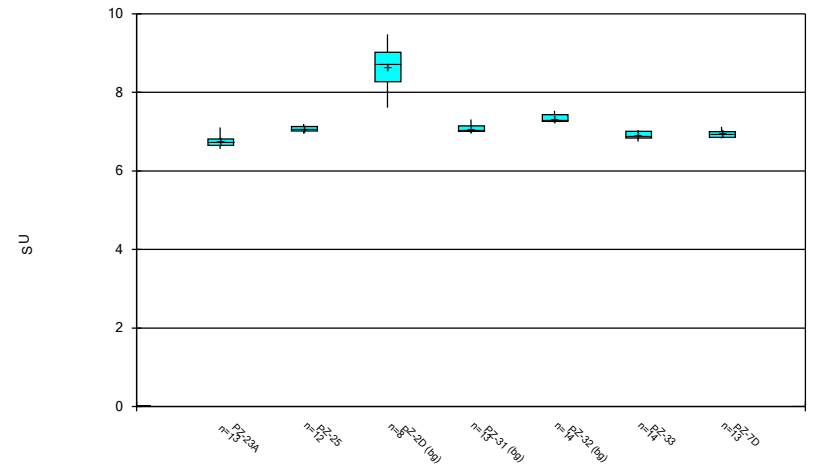
Constituent: Molybdenum Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



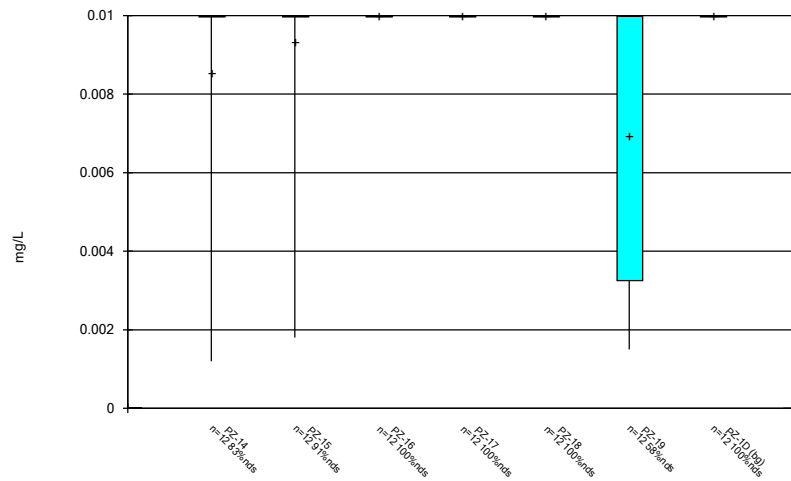
Constituent: pH Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



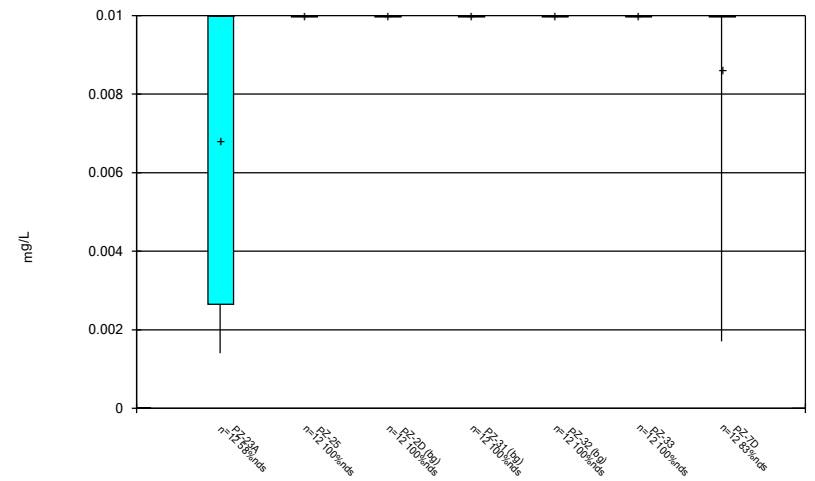
Constituent: pH Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



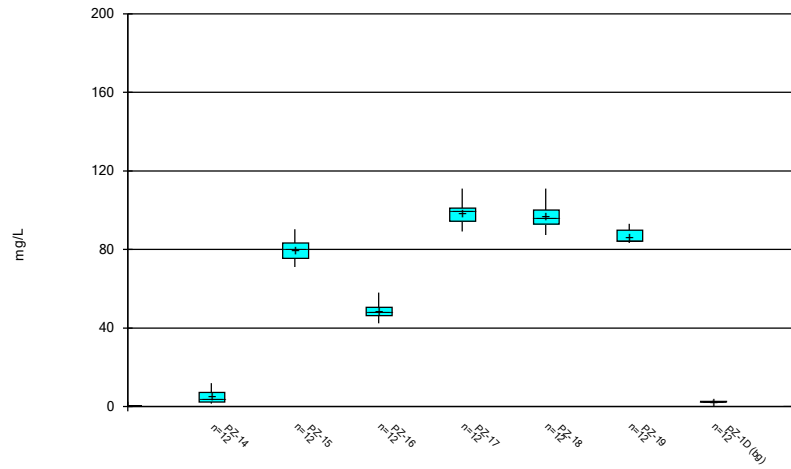
Constituent: Selenium Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



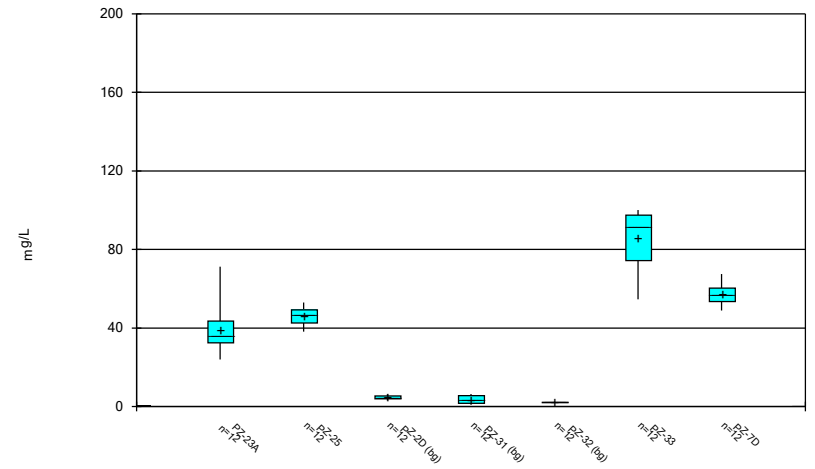
Constituent: Selenium Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



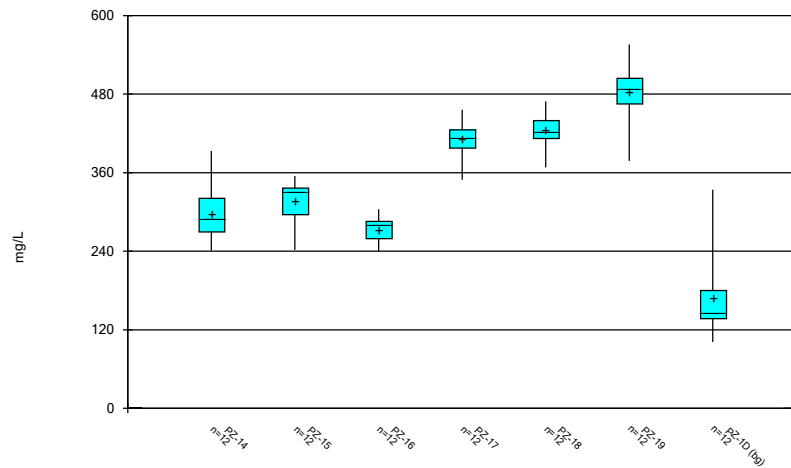
Constituent: Sulfate Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



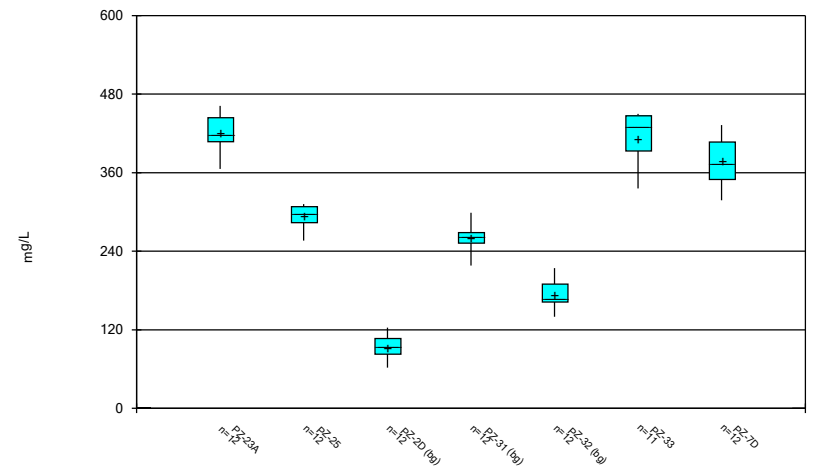
Constituent: Sulfate Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



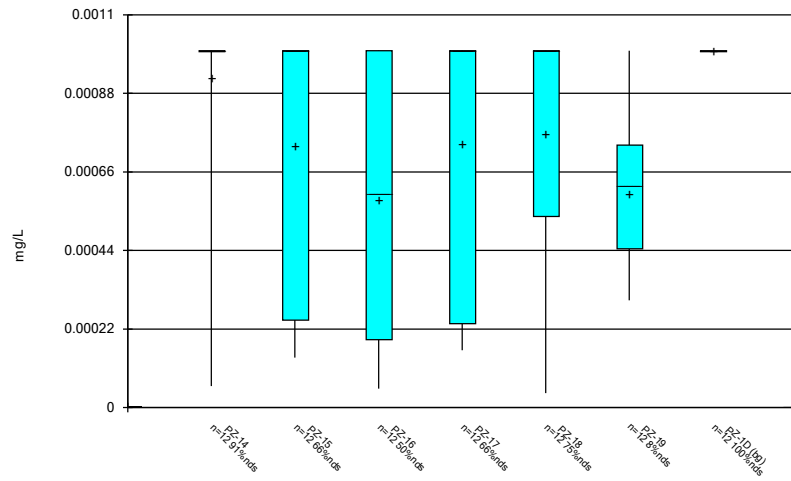
Constituent: TDS Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



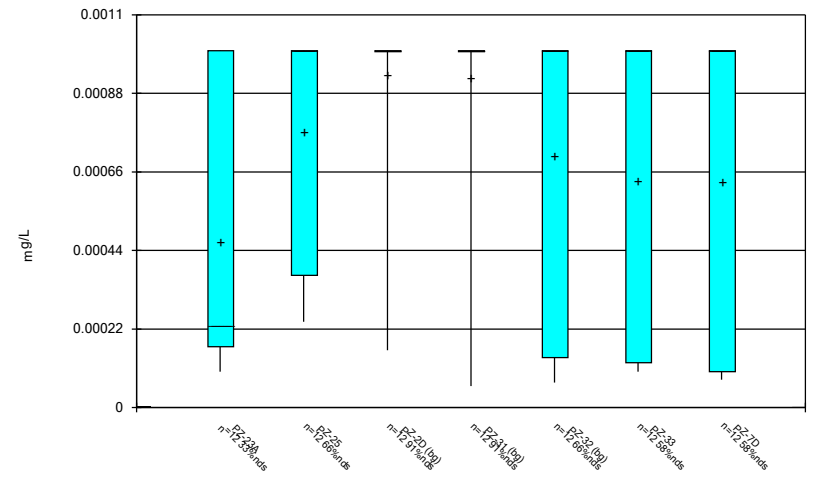
Constituent: TDS Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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

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

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	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 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 Prediction 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	Obsrv.	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
<b>Boron (mg/L)</b>	<b>PZ-15</b>	<b>0.02691</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>0.19</b>	<b>Yes</b>	<b>48</b>	<b>4.167</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
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
<b>Calcium (mg/L)</b>	<b>PZ-18</b>	<b>119.9</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>129</b>	<b>Yes</b>	<b>47</b>	<b>2.128</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Calcium (mg/L)</b>	<b>PZ-19</b>	<b>119.9</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>144</b>	<b>Yes</b>	<b>47</b>	<b>2.128</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Calcium (mg/L)</b>	<b>PZ-23A</b>	<b>119.9</b>	<b>n/a</b>	<b>10/6/2020</b>	<b>144</b>	<b>Yes</b>	<b>47</b>	<b>2.128</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
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
<b>Chloride (mg/L)</b>	<b>PZ-15</b>	<b>4.705</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>6.6</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Chloride (mg/L)</b>	<b>PZ-16</b>	<b>4.705</b>	<b>n/a</b>	<b>10/6/2020</b>	<b>6.4</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Chloride (mg/L)</b>	<b>PZ-17</b>	<b>4.705</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>5.7</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Chloride (mg/L)</b>	<b>PZ-18</b>	<b>4.705</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>5</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
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
<b>Chloride (mg/L)</b>	<b>PZ-23A</b>	<b>4.705</b>	<b>n/a</b>	<b>10/6/2020</b>	<b>7</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
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
<b>pH (SU)</b>	<b>PZ-18</b>	<b>9.48</b>	<b>6.96</b>	<b>10/7/2020</b>	<b>6.91</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001612</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH (SU)</b>	<b>PZ-19</b>	<b>9.48</b>	<b>6.96</b>	<b>10/7/2020</b>	<b>6.78</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001612</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH (SU)</b>	<b>PZ-23A</b>	<b>9.48</b>	<b>6.96</b>	<b>10/6/2020</b>	<b>6.78</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001612</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH (SU)</b>	<b>PZ-25</b>	<b>9.48</b>	<b>6.96</b>	<b>10/7/2020</b>	<b>6.95</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001612</b>	<b>NP Inter (normality) 1 of 2</b>
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
<b>Sulfate (mg/L)</b>	<b>PZ-14</b>	<b>7.172</b>	<b>n/a</b>	<b>10/6/2020</b>	<b>11</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-15</b>	<b>7.172</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>80.7</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-16</b>	<b>7.172</b>	<b>n/a</b>	<b>10/6/2020</b>	<b>42.4</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-17</b>	<b>7.172</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>89.1</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-18</b>	<b>7.172</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>87.3</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-19</b>	<b>7.172</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>83.3</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-23A</b>	<b>7.172</b>	<b>n/a</b>	<b>10/6/2020</b>	<b>71.2</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-25</b>	<b>7.172</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>38.1</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-33</b>	<b>7.172</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>54.6</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>PZ-7D</b>	<b>7.172</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>48.9</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
TDS (mg/L)	PZ-14	314	n/a	10/6/2020	241	No	48	0	None	No	0.0007523	Param Inter 1 of 2
<b>TDS (mg/L)</b>	<b>PZ-15</b>	<b>314</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>336</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
TDS (mg/L)	PZ-16	314	n/a	10/6/2020	261	No	48	0	None	No	0.0007523	Param Inter 1 of 2
<b>TDS (mg/L)</b>	<b>PZ-17</b>	<b>314</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>392</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>TDS (mg/L)</b>	<b>PZ-18</b>	<b>314</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>425</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>TDS (mg/L)</b>	<b>PZ-19</b>	<b>314</b>	<b>n/a</b>	<b>10/7/2020</b>	<b>492</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
<b>TDS (mg/L)</b>	<b>PZ-23A</b>	<b>314</b>	<b>n/a</b>	<b>10/6/2020</b>	<b>462</b>	<b>Yes</b>	<b>48</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Inter 1 of 2</b>
TDS (mg/L)	PZ-25	314	n/a	10/7/2020	280	No	48	0	None	No	0.0007523	Param Inter 1 of 2

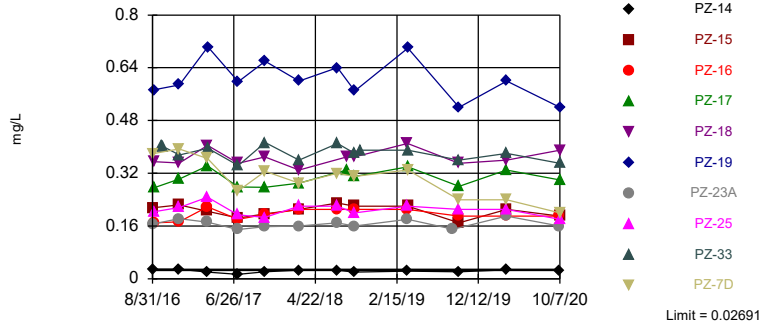
# Interwell Prediction Limit - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 1:43 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
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

Exceeds Limit: PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-7D

Prediction Limit  
Interwell Parametric

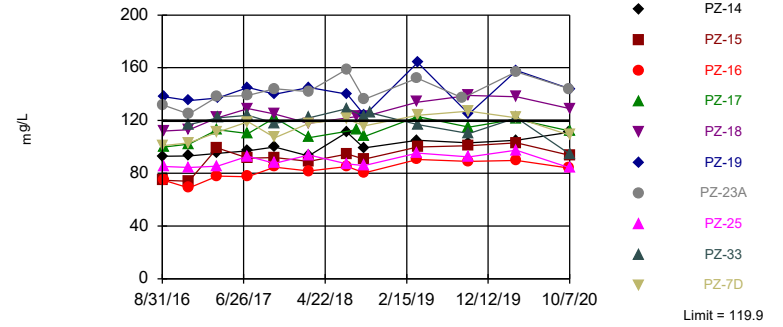


Background Data Summary (based on natural log transformation): Mean=-4.326, Std. Dev.=0.3488, n=48, 4.167% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9553, critical = 0.929. Kappa = 2.039 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 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

Exceeds Limit: PZ-18, PZ-19, PZ-23A

Prediction Limit  
Interwell Parametric

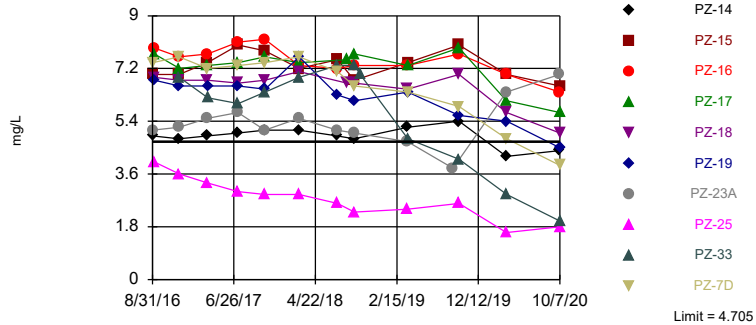


Background Data Summary (based on square root transformation): Mean=7.178, Std. Dev.=1.847, n=47, 2.128% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9324, critical = 0.928. Kappa = 2.042 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 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

Exceeds Limit: PZ-15, PZ-16, PZ-17, PZ-18, PZ-23A

Prediction Limit  
Interwell Parametric



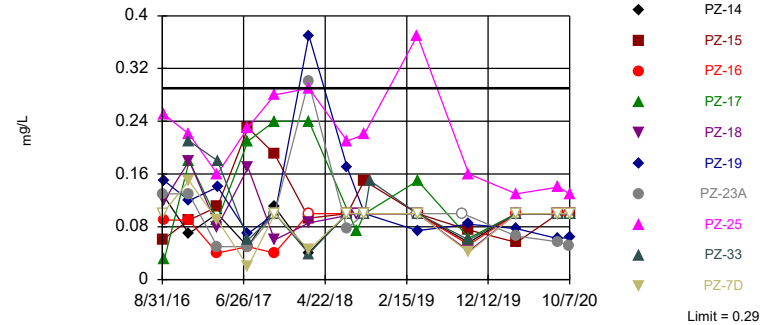
Background Data Summary (based on square root transformation): Mean=1.77, Std. Dev.=0.1957, n=48. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.936, critical = 0.929. Kappa = 2.039 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. 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

Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Interwell Non-parametric

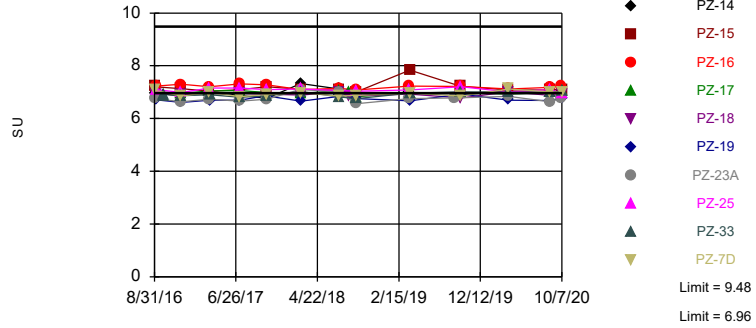


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 52 background values. 42.31% NDs. Annual per-constituent alpha = 0.01367. Individual comparison alpha = 0.0006878 (1 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

Exceeds Limits: PZ-18, PZ-19, PZ-23A, PZ-25

### Prediction Limit Interwell Non-parametric

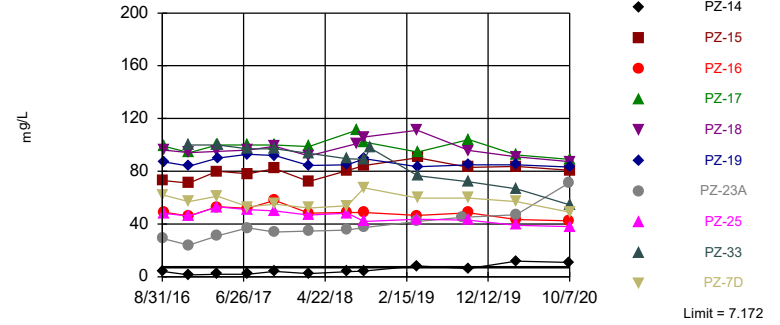


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 48 background values. Annual per-constituent alpha = 0.03199. Individual comparison alpha = 0.001612 (1 of 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

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

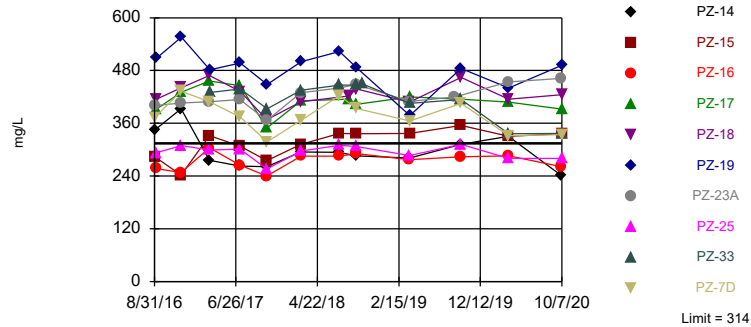


Background Data Summary (based on natural log transformation): Mean=1.046, Std. Dev.=0.4535, n=48. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9403, critical = 0.929. Kappa = 2.039 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. 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

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

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
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

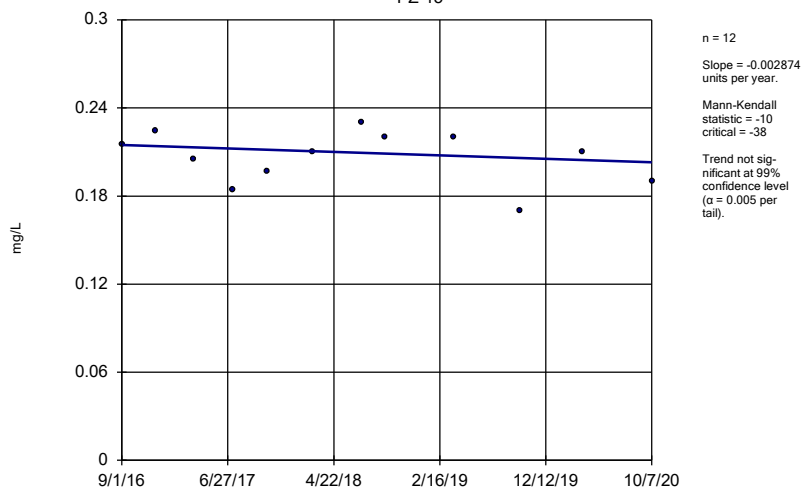
# Trend Test - All Results

Plant Mitchell    Client: Southern Company    Data: Mitchell Ash Pond CCR    Printed 12/8/2020, 1:49 PM

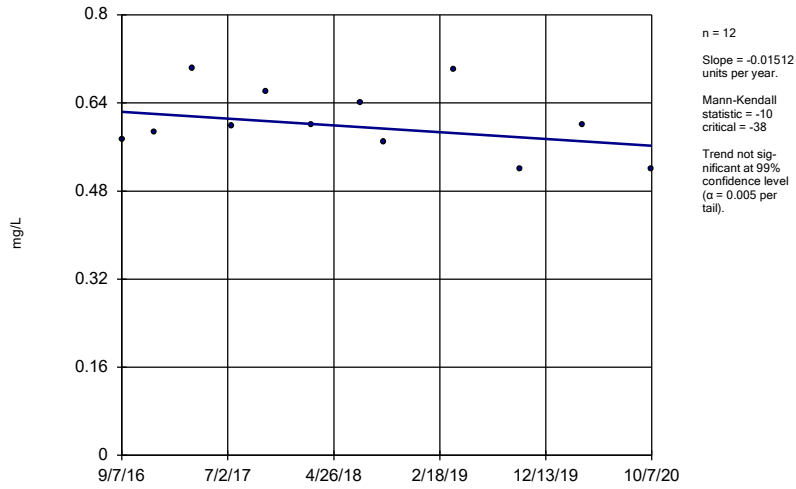
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-15	-0.002874	-10	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0.001543	9	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-17	0.004918	15	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-18	0.003211	10	38	No	12	0	n/a	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
<b>Boron (mg/L)</b>	<b>PZ-7D</b>	<b>-0.04195</b>	<b>-41</b>	<b>-38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>PZ-18</b>	<b>5.393</b>	<b>40</b>	<b>38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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
<b>Chloride (mg/L)</b>	<b>PZ-31 (bg)</b>	<b>-0.4113</b>	<b>-43</b>	<b>-38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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
<b>Sulfate (mg/L)</b>	<b>PZ-14</b>	<b>1.958</b>	<b>47</b>	<b>38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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
<b>Sulfate (mg/L)</b>	<b>PZ-23A</b>	<b>5.866</b>	<b>58</b>	<b>38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>PZ-25</b>	<b>-3.585</b>	<b>-42</b>	<b>-38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	PZ-2D (bg)	-0.8052	-26	-38	No	12	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>PZ-31 (bg)</b>	<b>-1.363</b>	<b>-43</b>	<b>-38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	PZ-32 (bg)	0.03898	11	38	No	12	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>PZ-33</b>	<b>-10.95</b>	<b>-54</b>	<b>-38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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
<b>TDS (mg/L)</b>	<b>PZ-23A</b>	<b>15.05</b>	<b>44</b>	<b>38</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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

### Sen's Slope Estimator

PZ-15

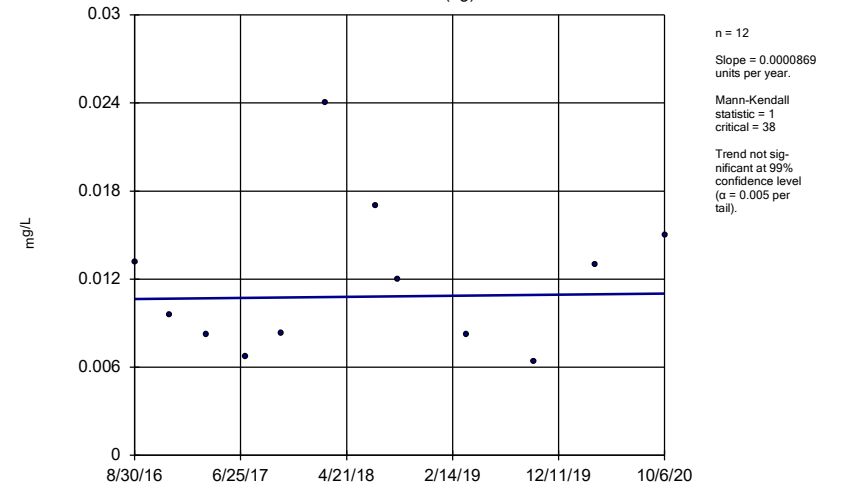


Sen's Slope Estimator  
PZ-19



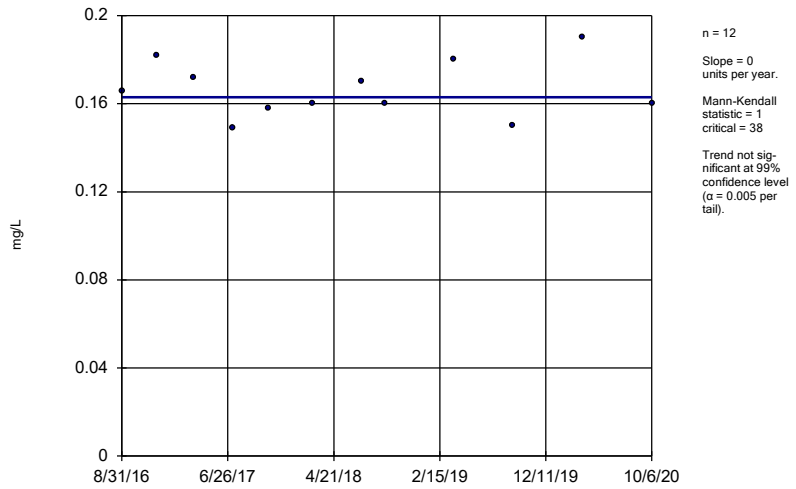
Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-1D (bg)



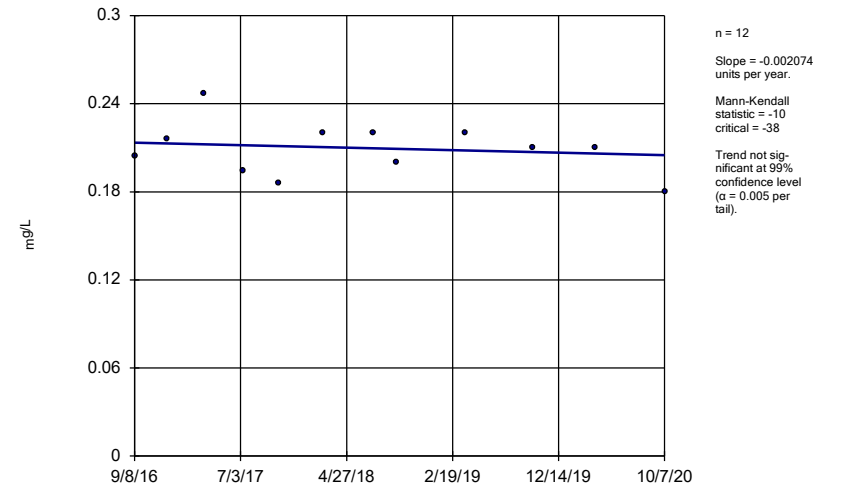
Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-23A



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

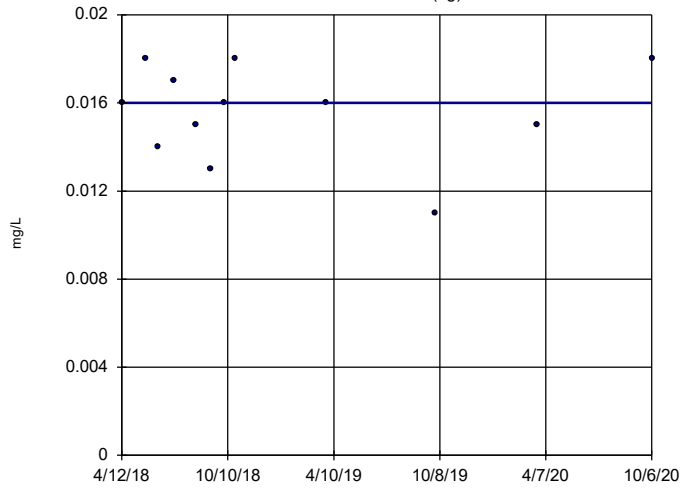


Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



### Sen's Slope Estimator

PZ-2D (bg)



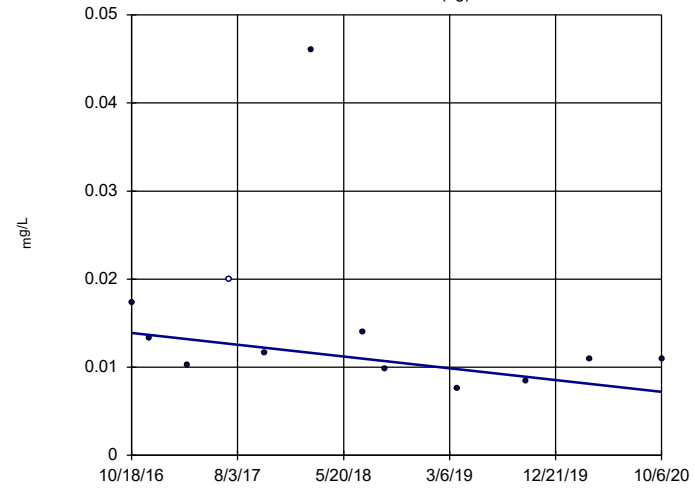
n = 12  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -3  
 critical = -38  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Hollow symbols indicate censored values.

### Sen's Slope Estimator

PZ-31 (bg)



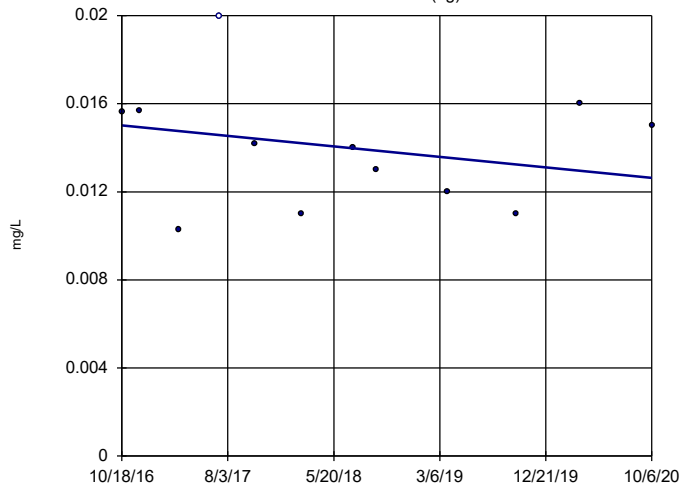
n = 12  
 Slope = -0.001685  
 units per year.  
 Mann-Kendall  
 statistic = -23  
 critical = -38  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Hollow symbols indicate censored values.

### Sen's Slope Estimator

PZ-32 (bg)

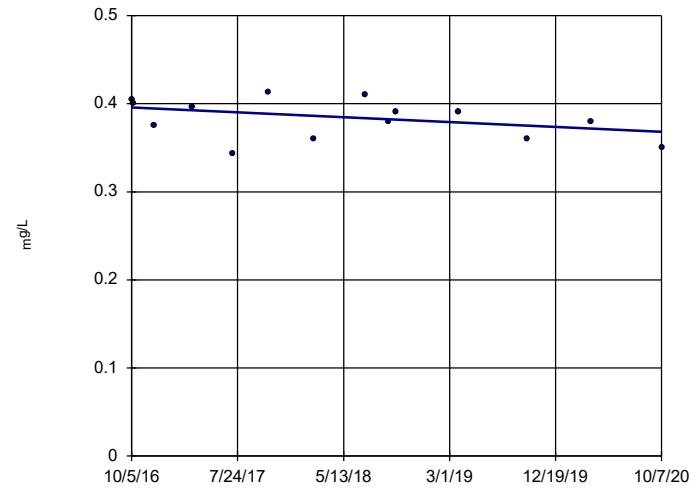


n = 12  
 Slope = -0.0005995  
 units per year.  
 Mann-Kendall  
 statistic = -7  
 critical = -38  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

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

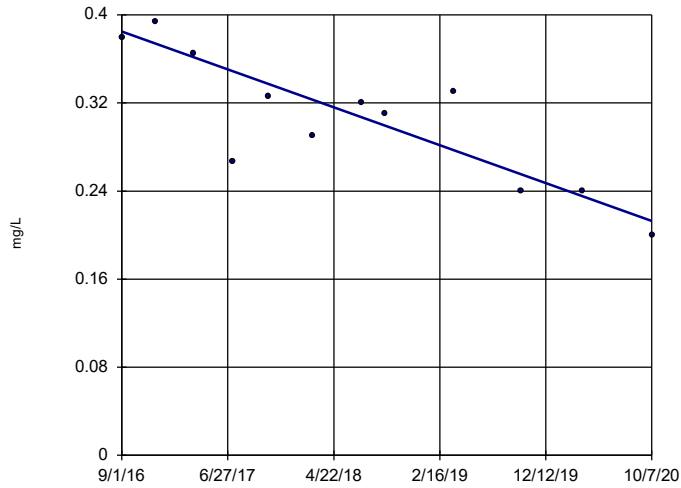
PZ-33



n = 14  
 Slope = -0.006909  
 units per year.  
 Mann-Kendall  
 statistic = -28  
 critical = -48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

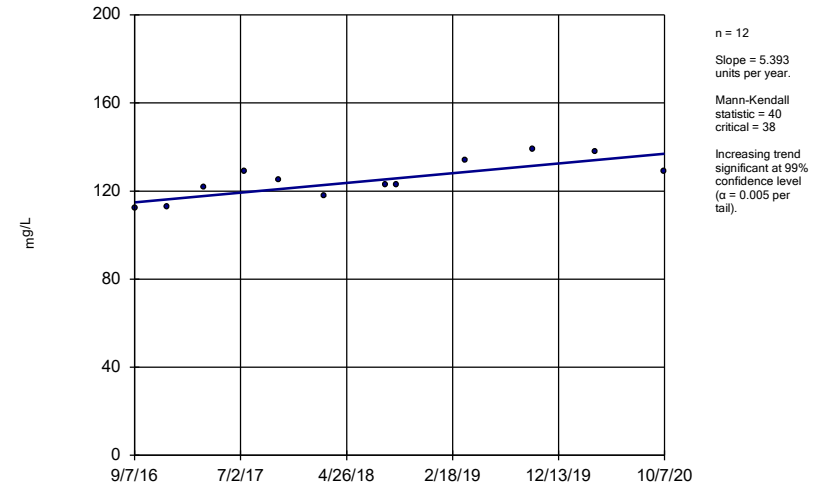
Constituent: Boron Analysis Run 12/8/2020 1:47 PM View: Appendix III  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator PZ-7D



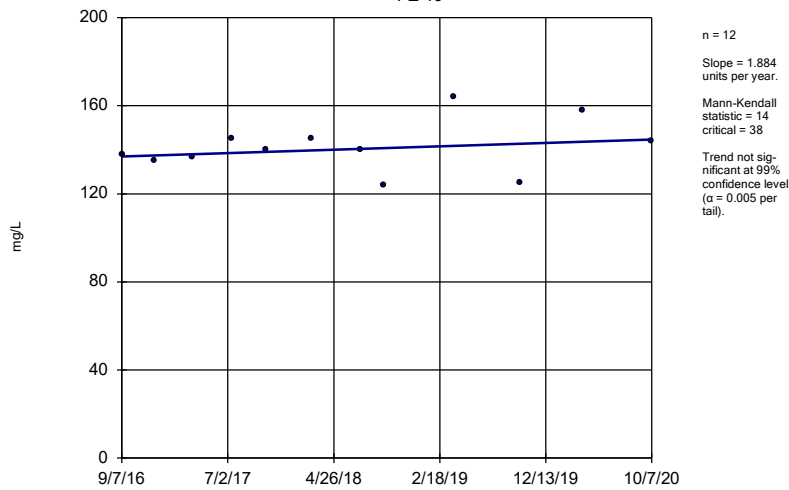
Constituent: Boron Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator PZ-18



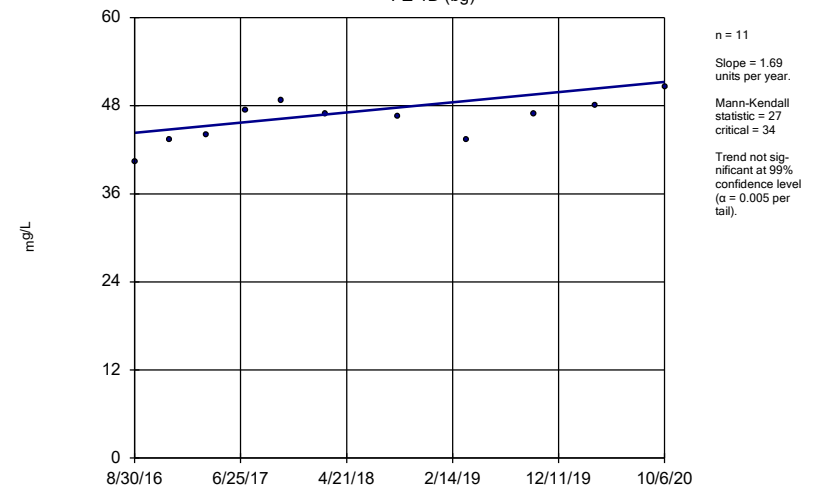
Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator PZ-19



Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

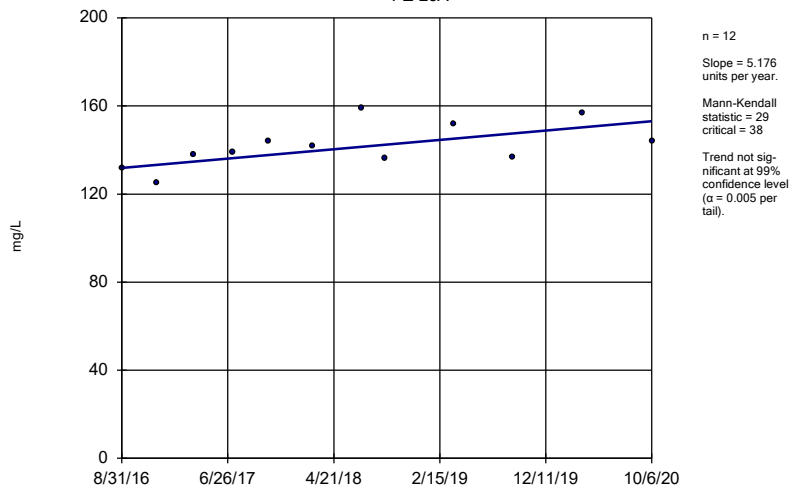
### Sen's Slope Estimator PZ-1D (bg)



Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator

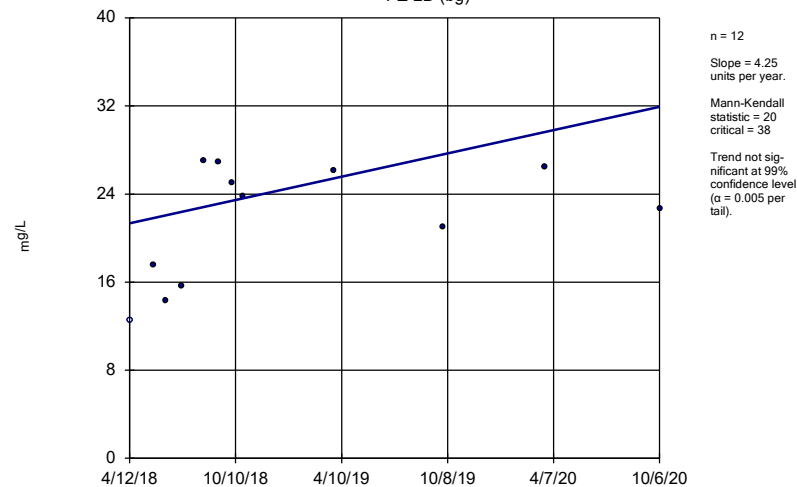
PZ-23A



Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator

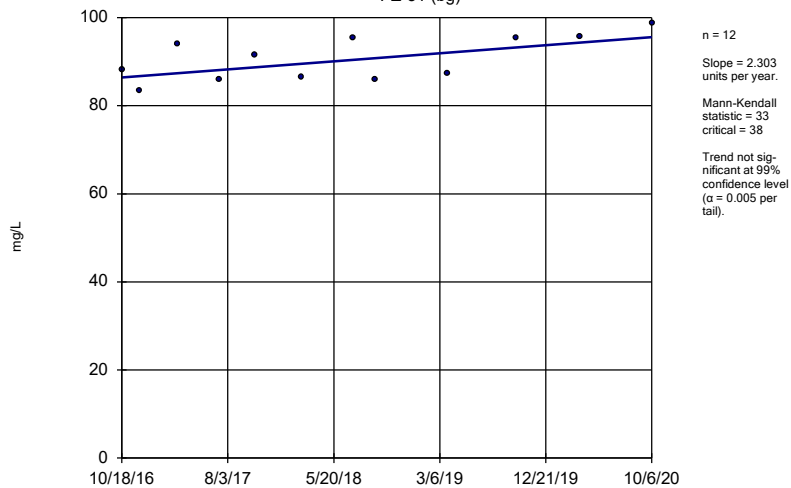
PZ-2D (bg)



Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator

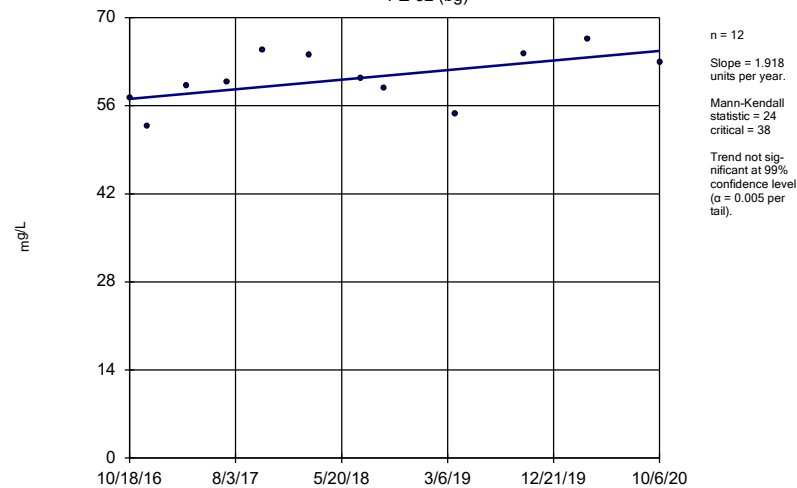
PZ-31 (bg)



Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator

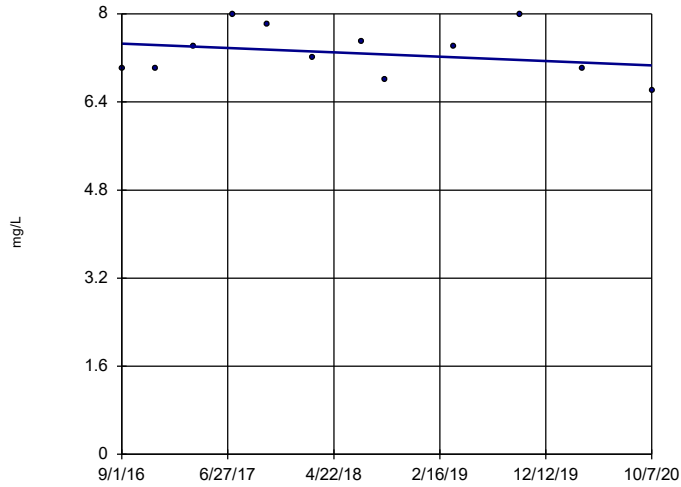
PZ-32 (bg)



Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator

PZ-15

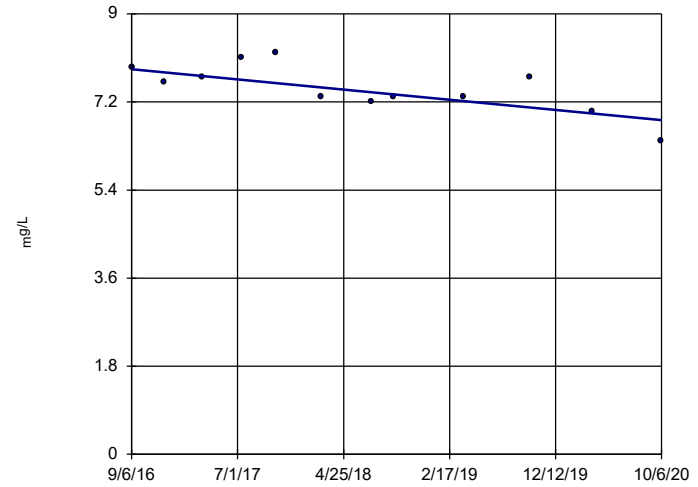


n = 12  
 Slope = -0.09612 units per year.  
 Mann-Kendall statistic = -7  
 critical = -38  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator

PZ-16

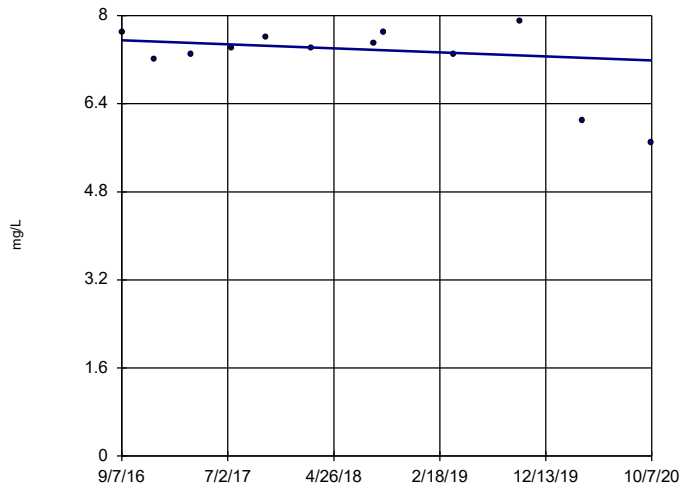


n = 12  
 Slope = -0.2544 units per year.  
 Mann-Kendall statistic = -32  
 critical = -38  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator

PZ-17

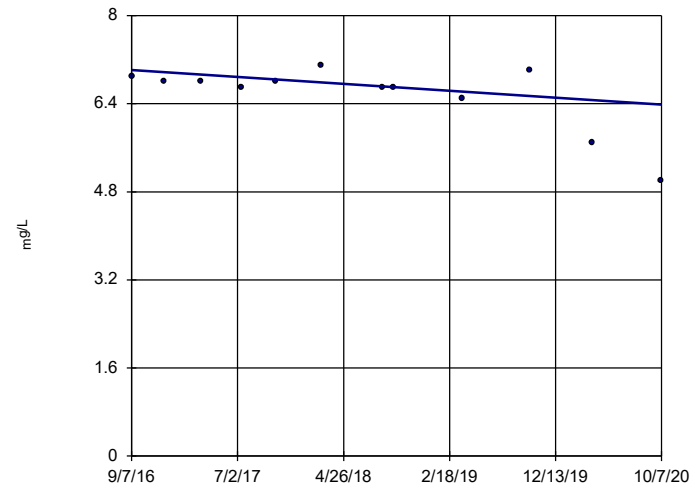


n = 12  
 Slope = -0.09058 units per year.  
 Mann-Kendall statistic = -7  
 critical = -38  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator

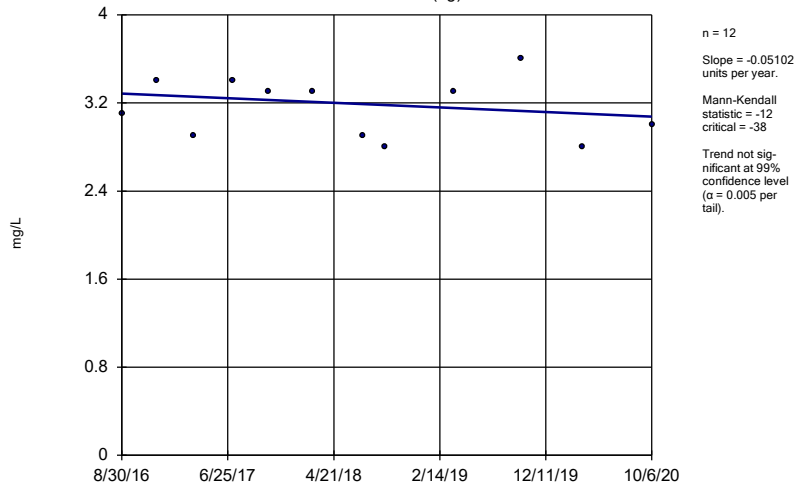
PZ-18



n = 12  
 Slope = -0.1529 units per year.  
 Mann-Kendall statistic = -32  
 critical = -38  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

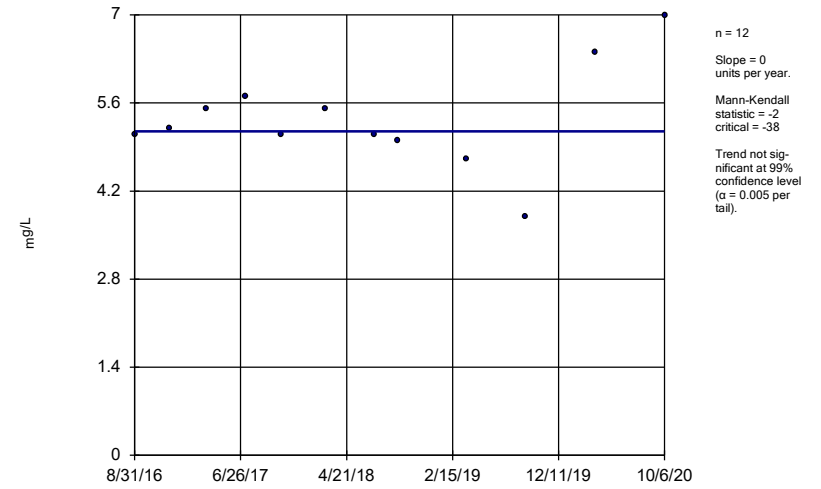
Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-1D (bg)



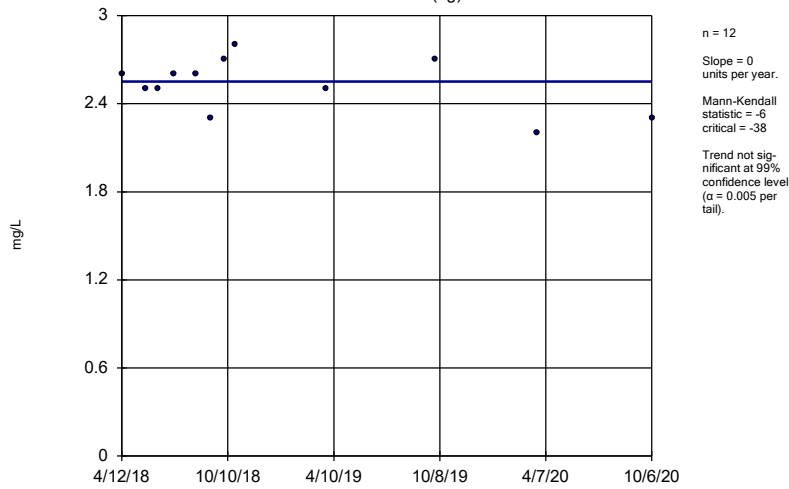
Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-23A



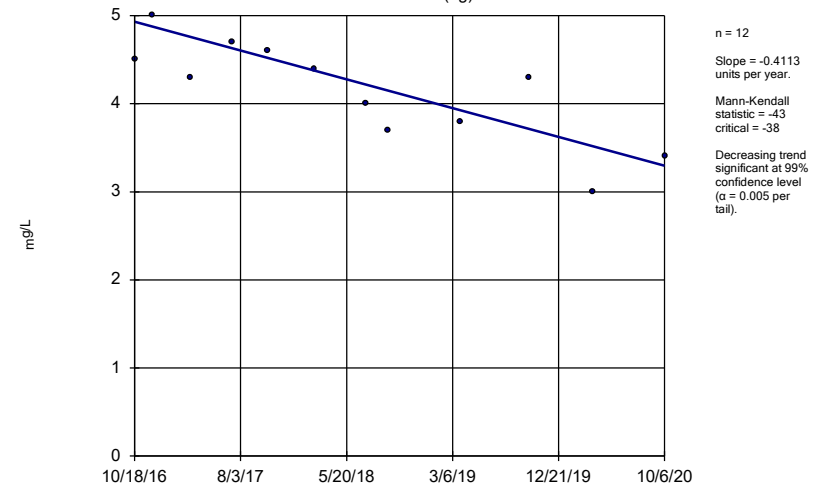
Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-2D (bg)



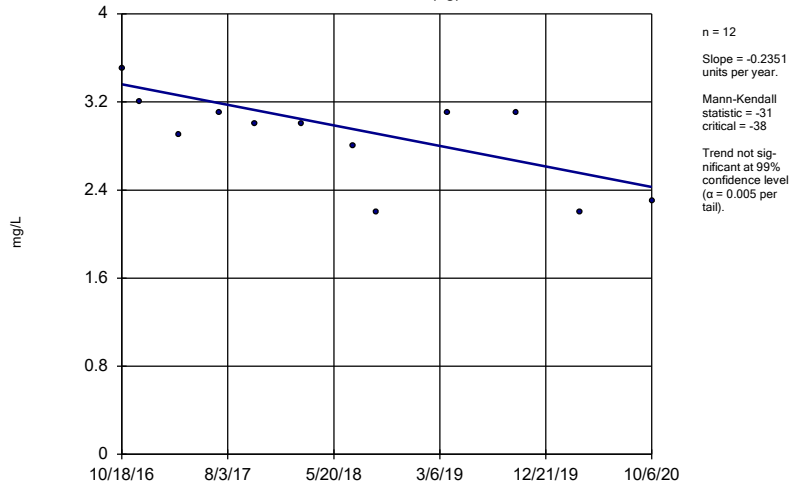
Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-31 (bg)



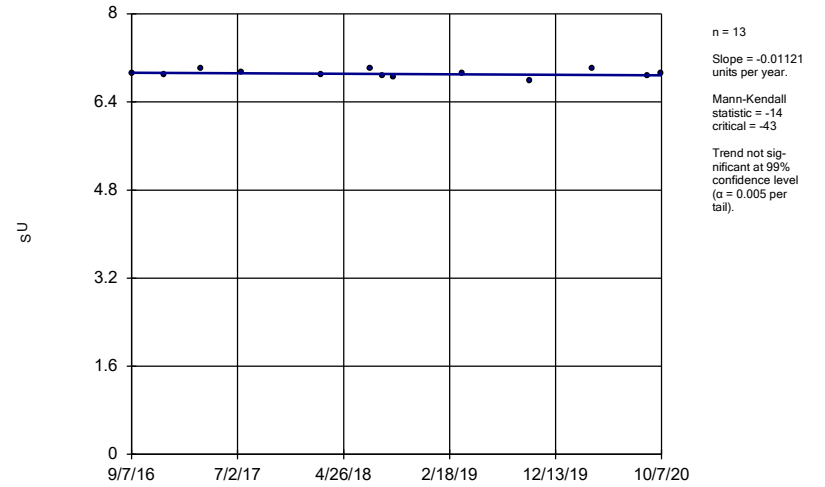
Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator PZ-32 (bg)



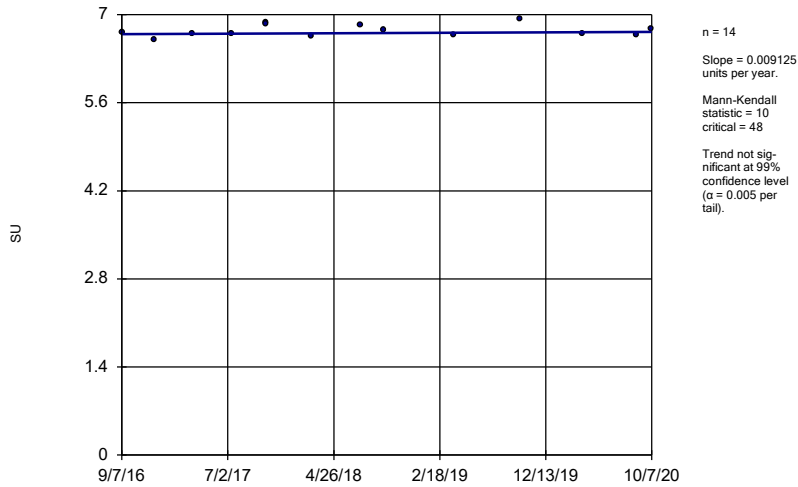
Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator PZ-18



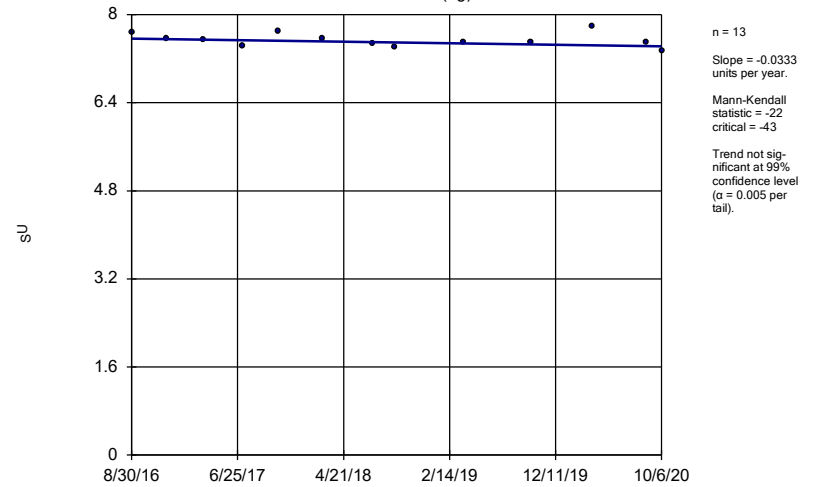
Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator PZ-19



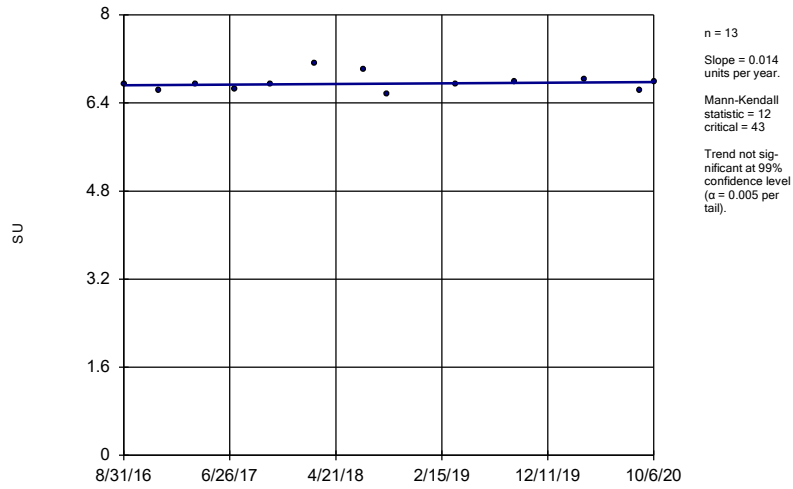
Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator PZ-1D (bg)



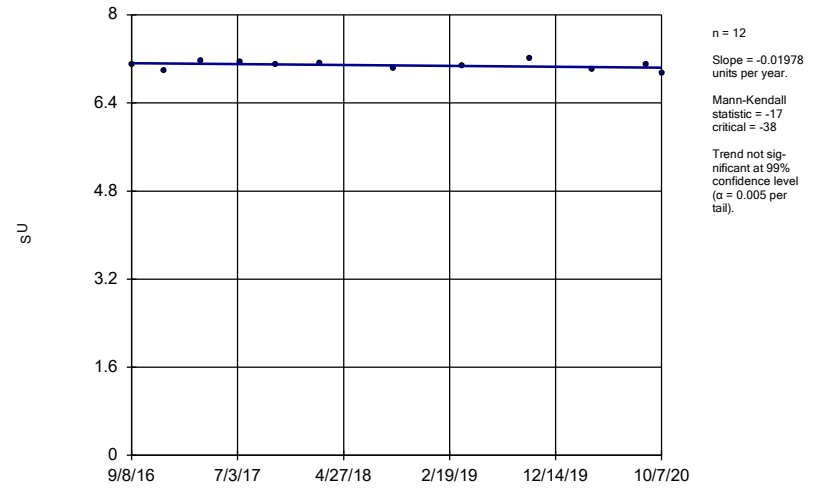
Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator PZ-23A



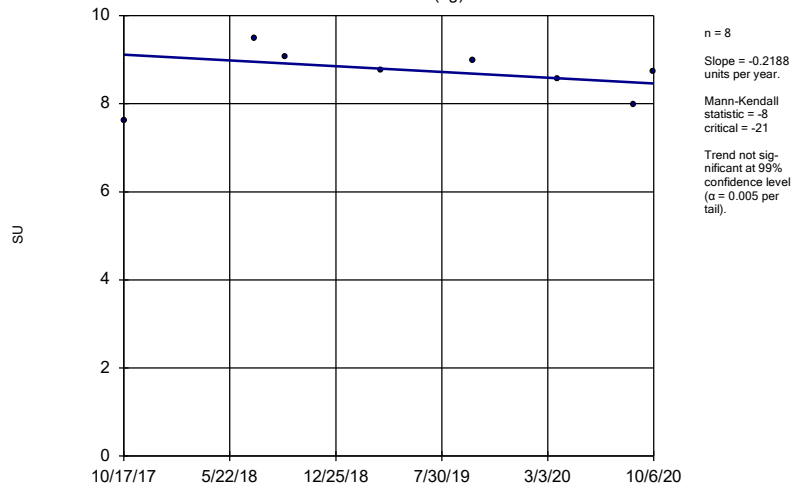
Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator PZ-25



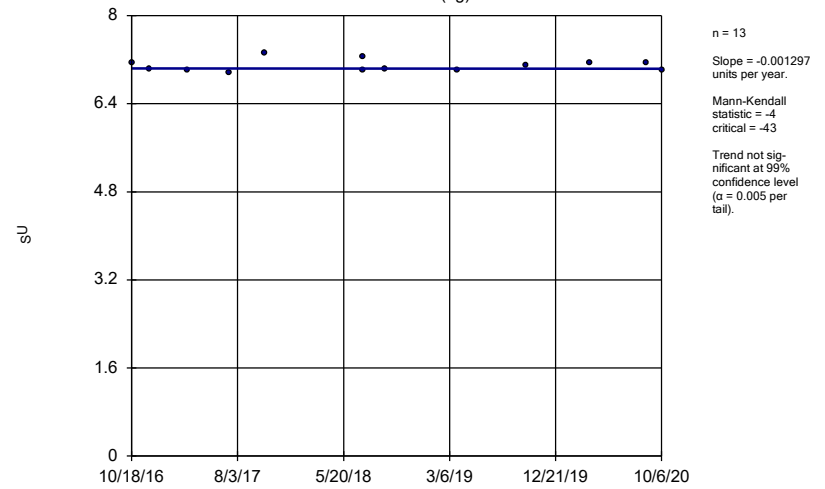
Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator PZ-2D (bg)



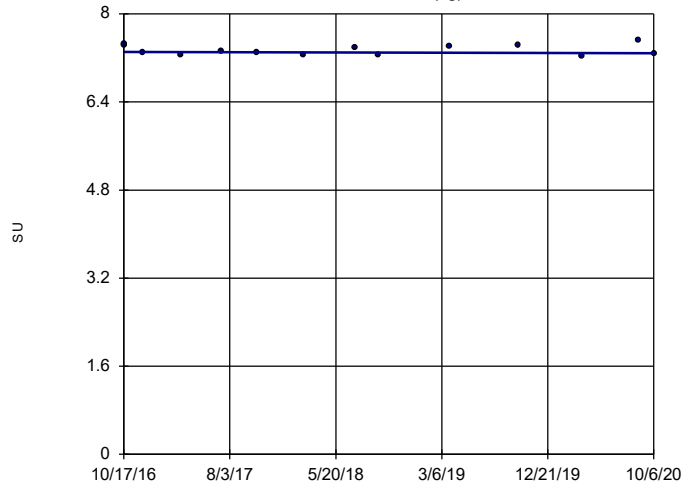
Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator PZ-31 (bg)



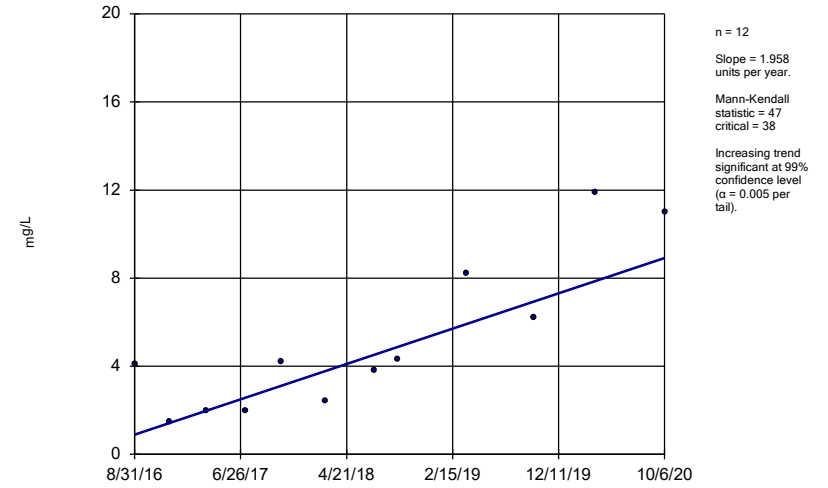
Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-32 (bg)



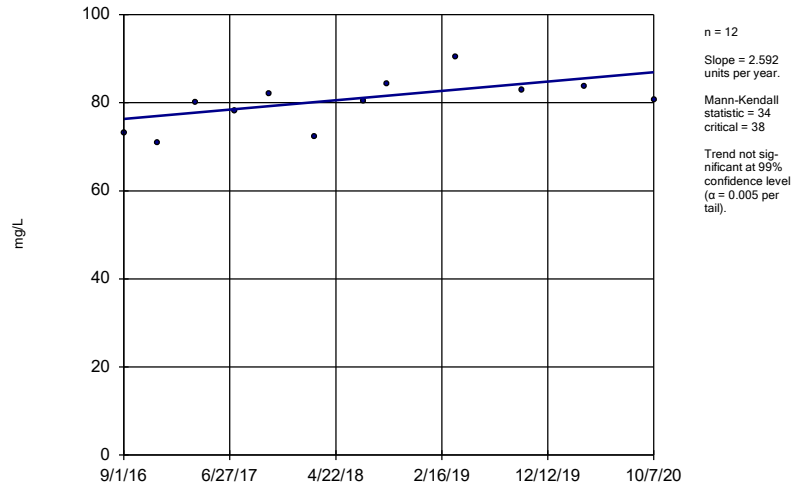
Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-14



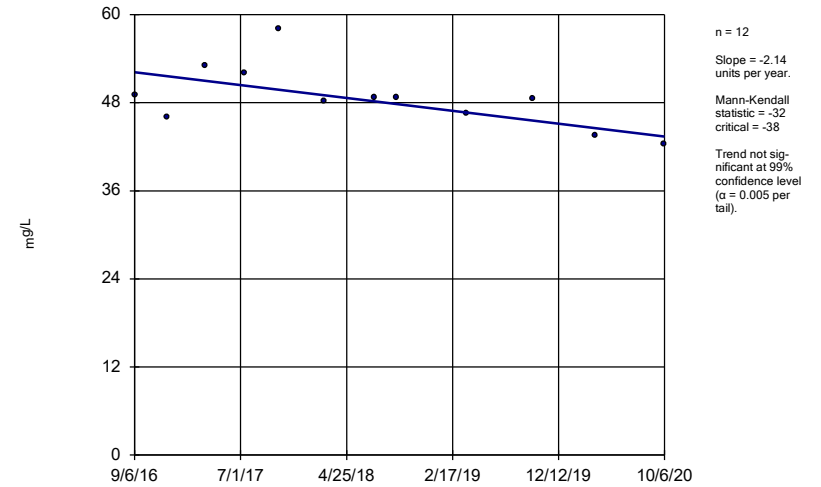
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-15



Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

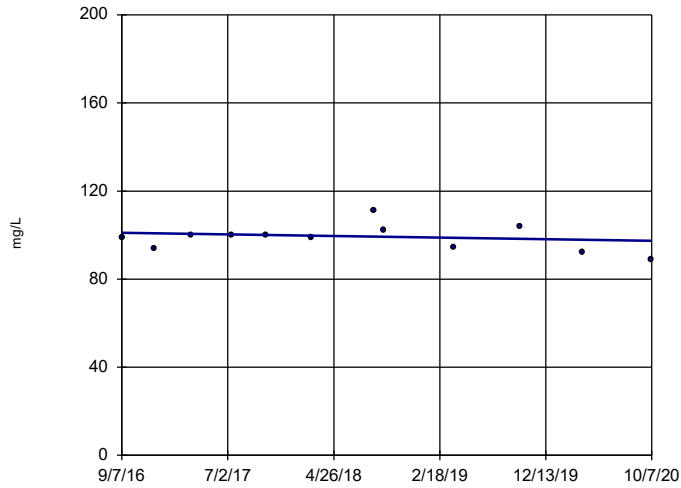
Sen's Slope Estimator  
PZ-16



Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



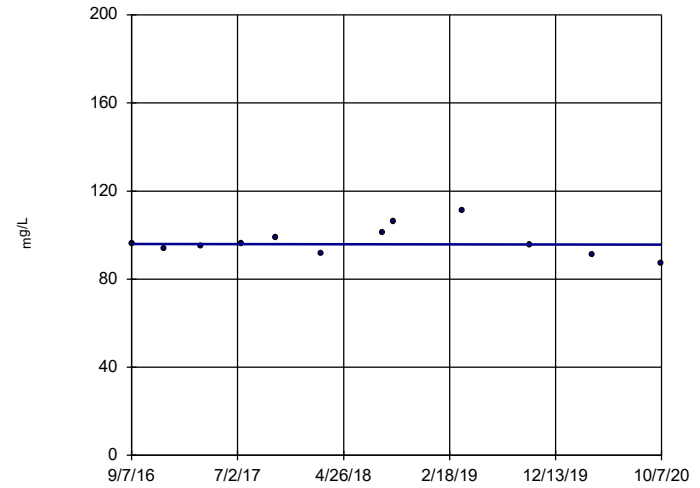
### Sen's Slope Estimator PZ-17



n = 12  
 Slope = -0.8819  
 units per year.  
 Mann-Kendall  
 statistic = -7  
 critical = -38  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  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

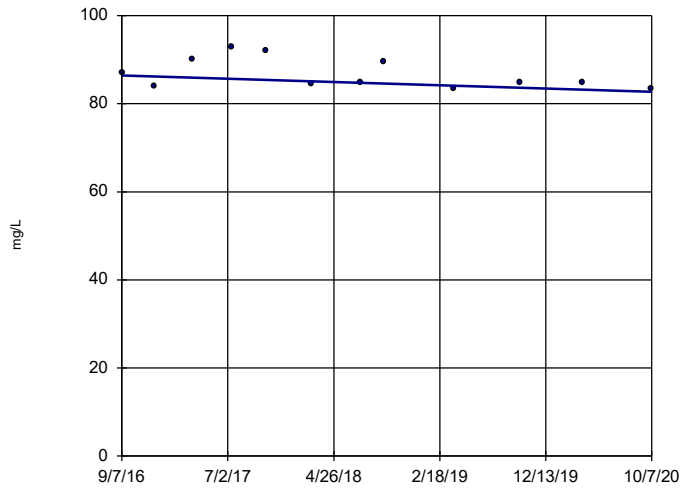
### Sen's Slope Estimator PZ-18



n = 12  
 Slope = -0.07746  
 units per year.  
 Mann-Kendall  
 statistic = -3  
 critical = -38  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  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

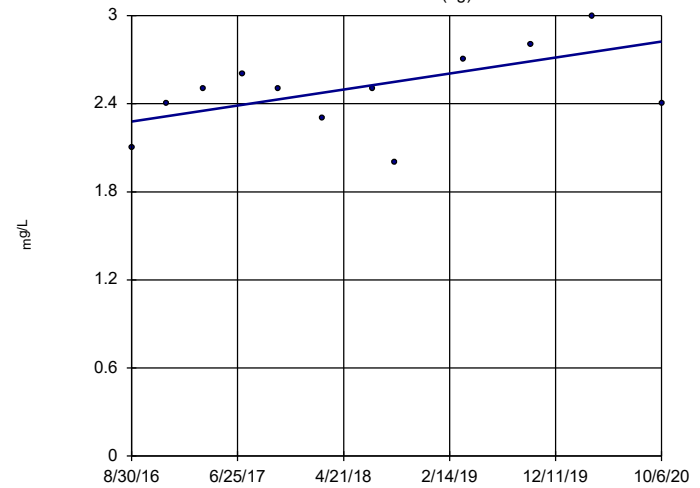
### Sen's Slope Estimator PZ-19



n = 12  
 Slope = -0.9091  
 units per year.  
 Mann-Kendall  
 statistic = -21  
 critical = -38  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  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

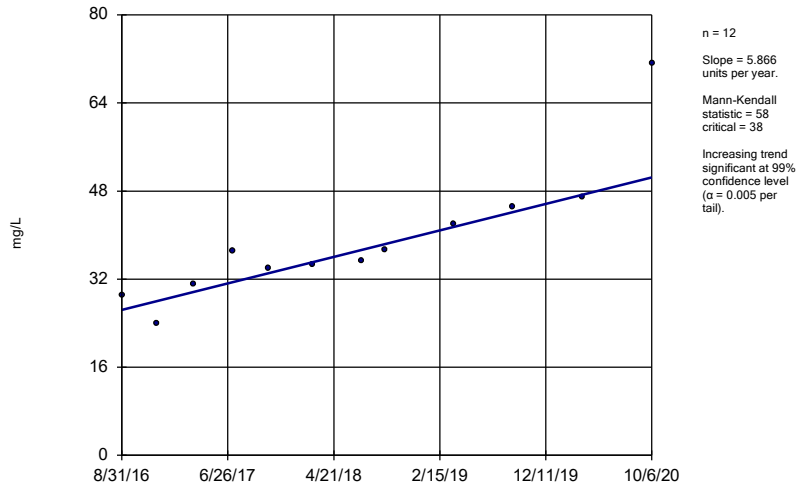
### Sen's Slope Estimator PZ-1D (bg)



n = 12  
 Slope = 0.1329  
 units per year.  
 Mann-Kendall  
 statistic = 22  
 critical = 38  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

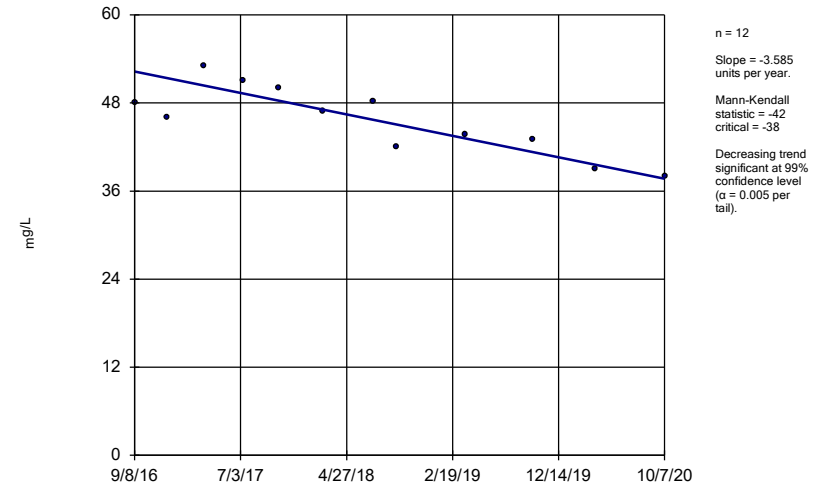
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-23A



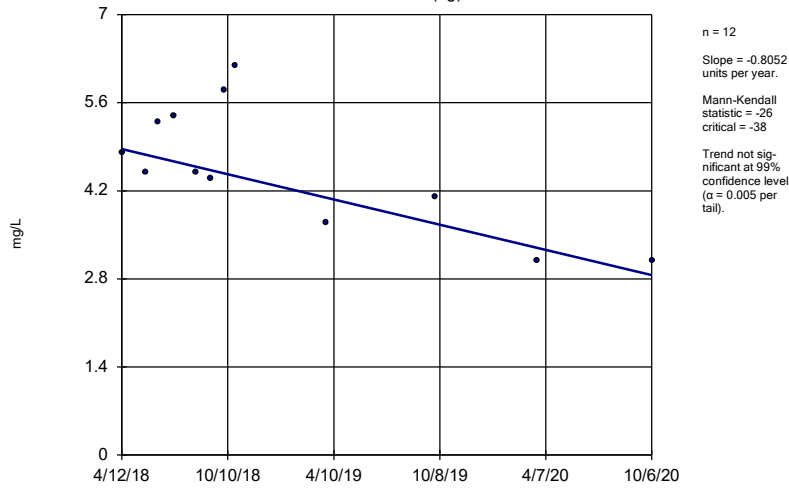
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-25



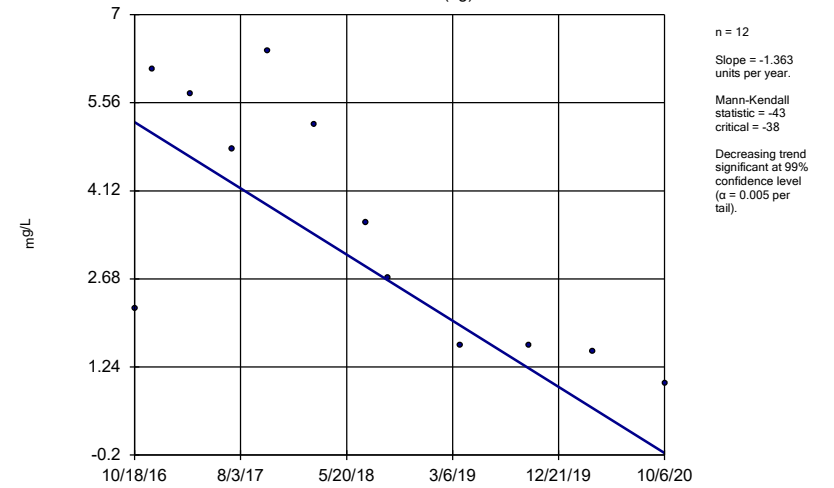
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-2D (bg)



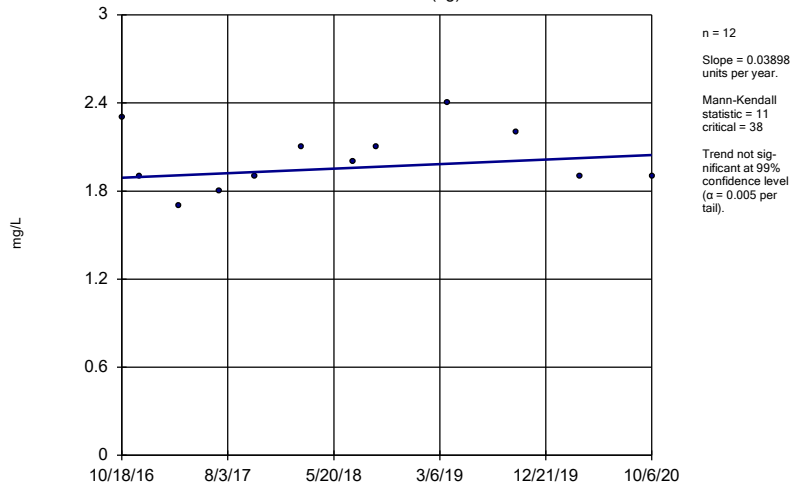
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-31 (bg)



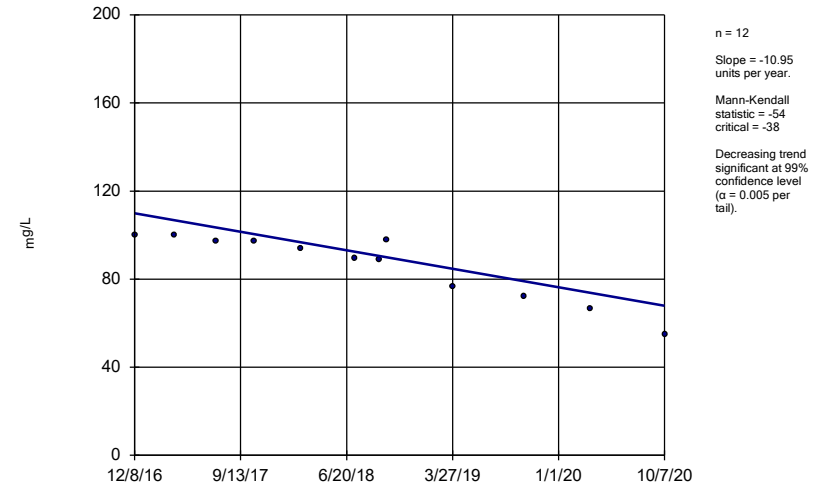
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-32 (bg)



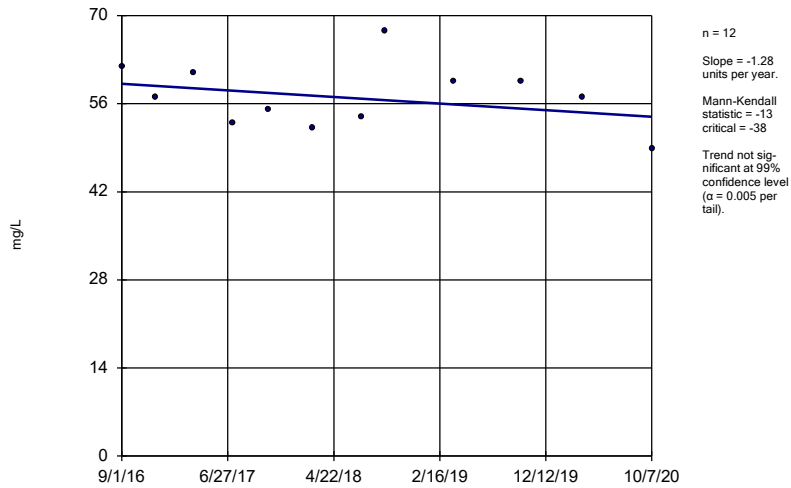
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-33



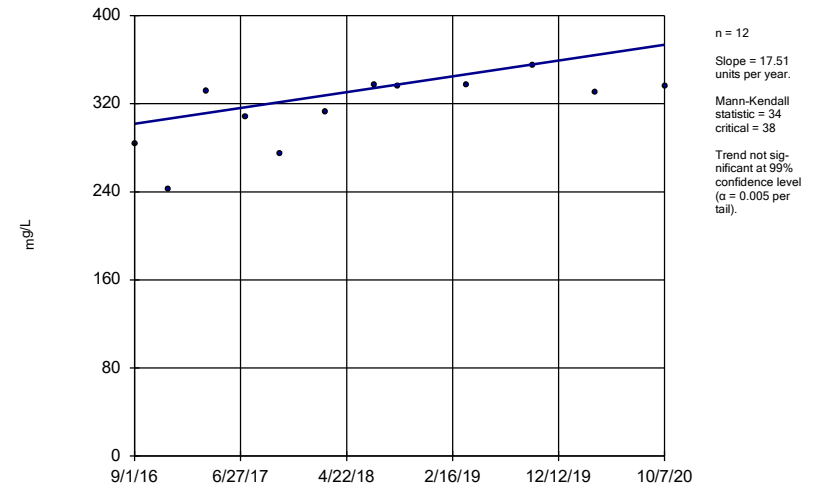
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-7D



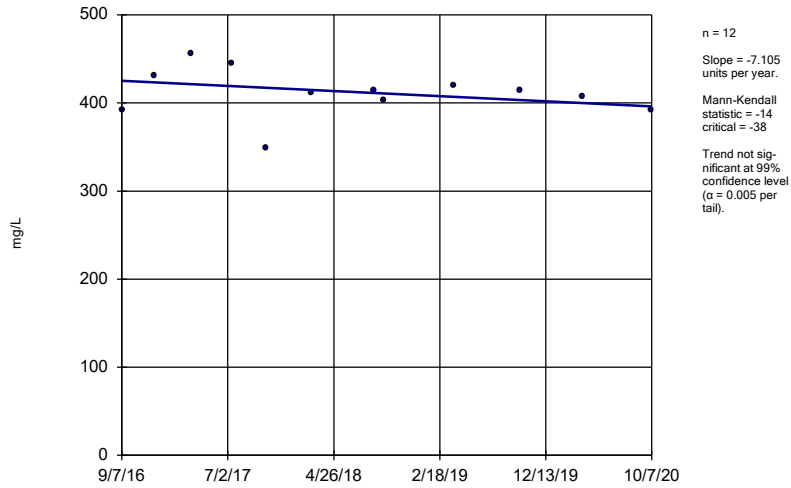
Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-15



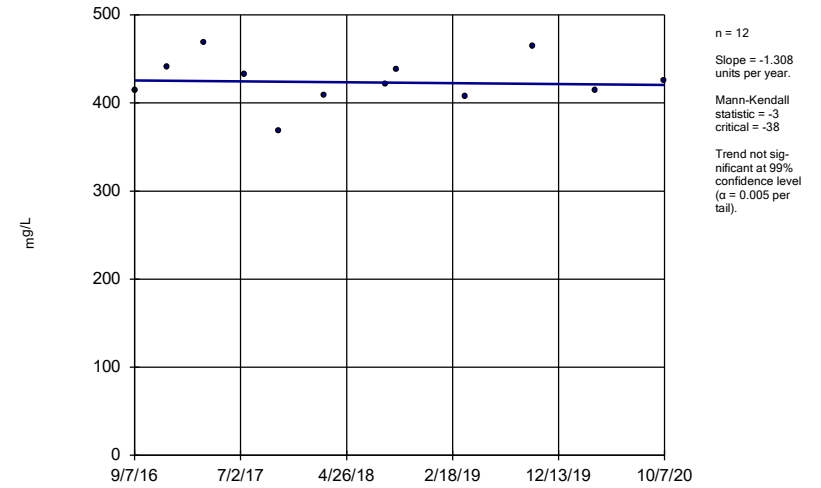
Constituent: TDS Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-17



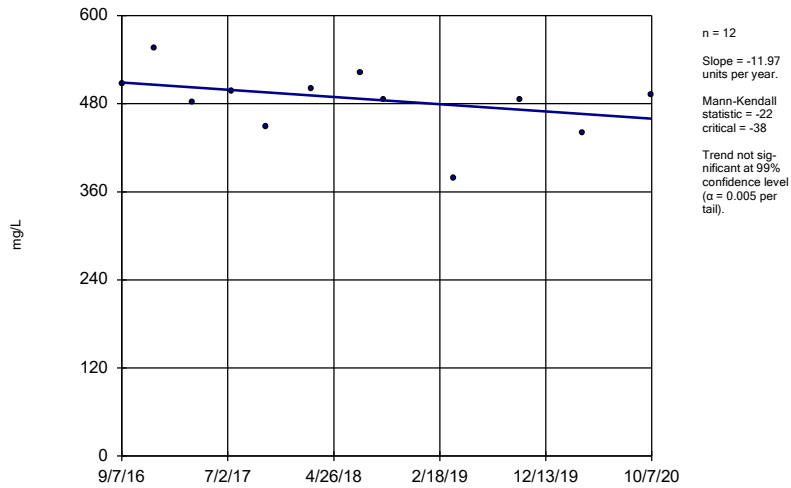
Constituent: TDS Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-18



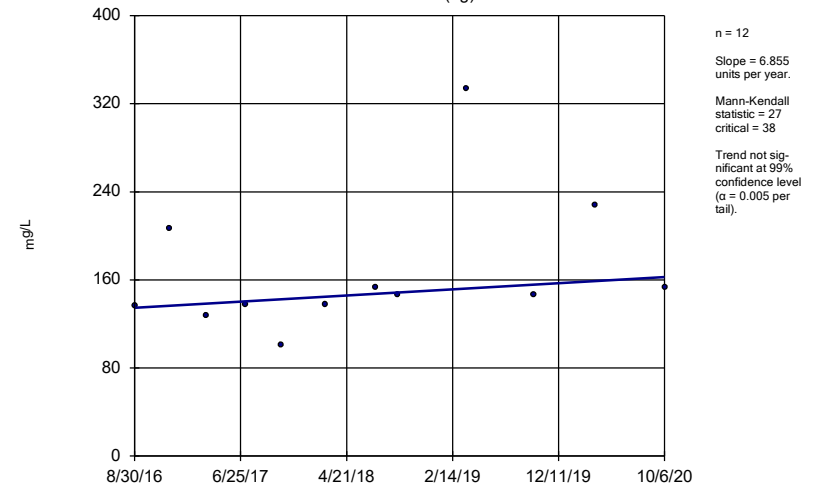
Constituent: TDS Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator  
PZ-19



Constituent: TDS Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

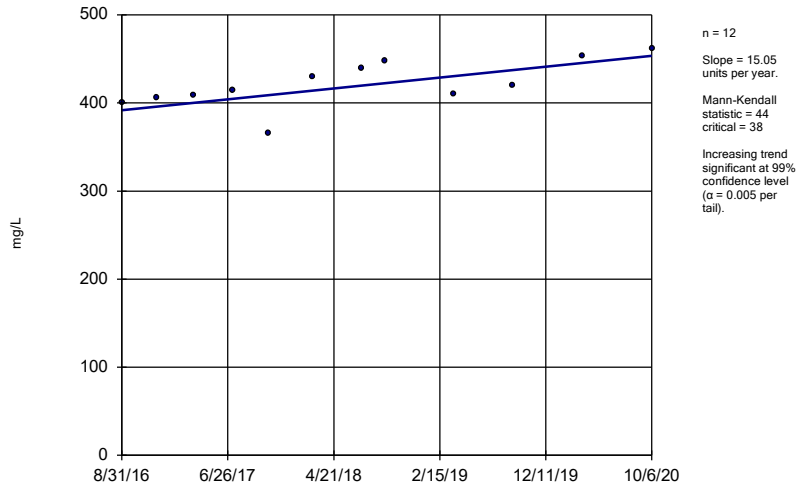
Sen's Slope Estimator  
PZ-1D (bg)



Constituent: TDS Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator

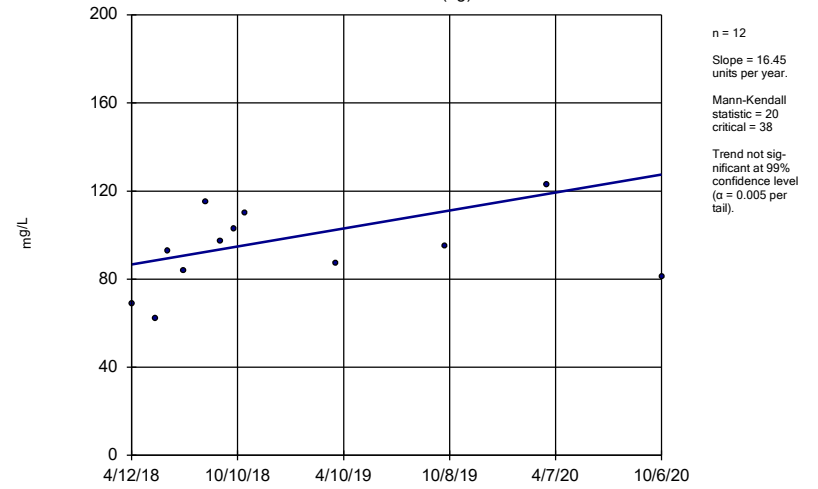
PZ-23A



Constituent: TDS Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator

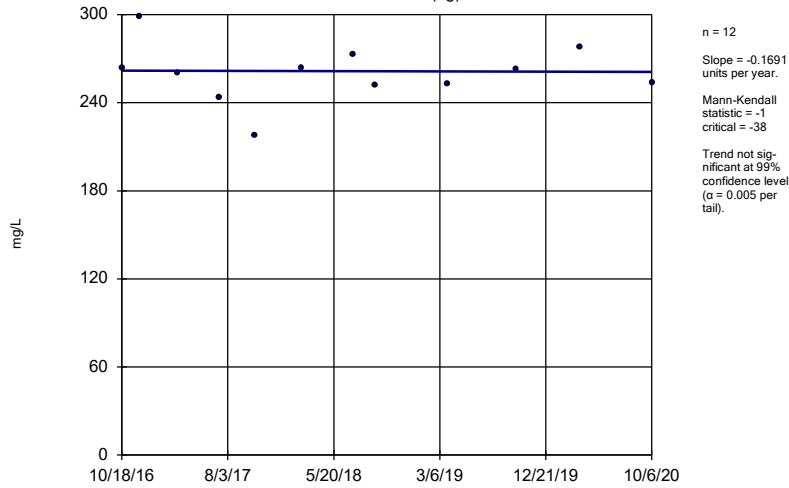
PZ-2D (bg)



Constituent: TDS Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator

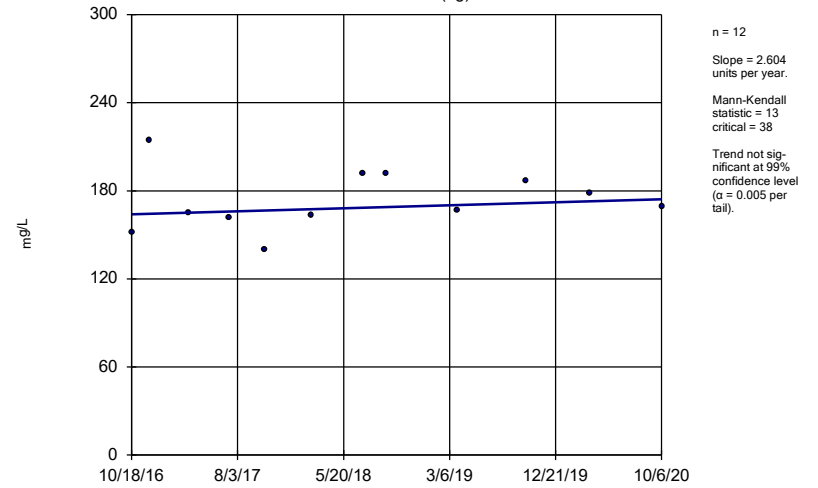
PZ-31 (bg)



Constituent: TDS Analysis Run 12/8/2020 1:47 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

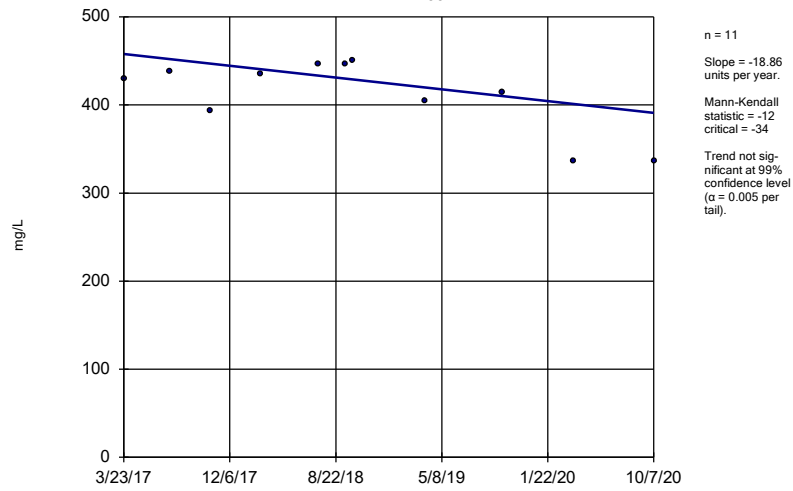
### Sen's Slope Estimator

PZ-32 (bg)



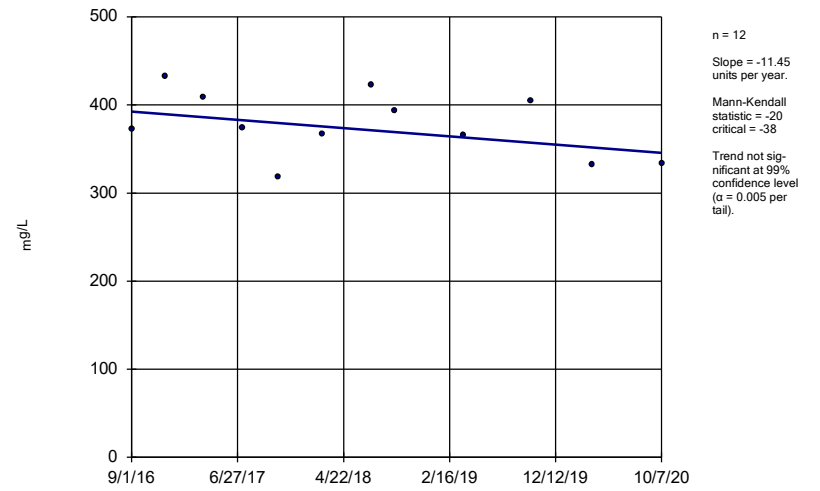
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator PZ-33



Constituent: TDS Analysis Run 12/8/2020 1:48 PM View: Appendix III  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Sen's Slope Estimator PZ-7D



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.	Bq 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.

<b>PLANT MITCHELL ASH POND GWPS</b>			
<b>Constituent Name</b>	<b>MCL</b>	<b>Background Limit</b>	<b>GWPS</b>
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)

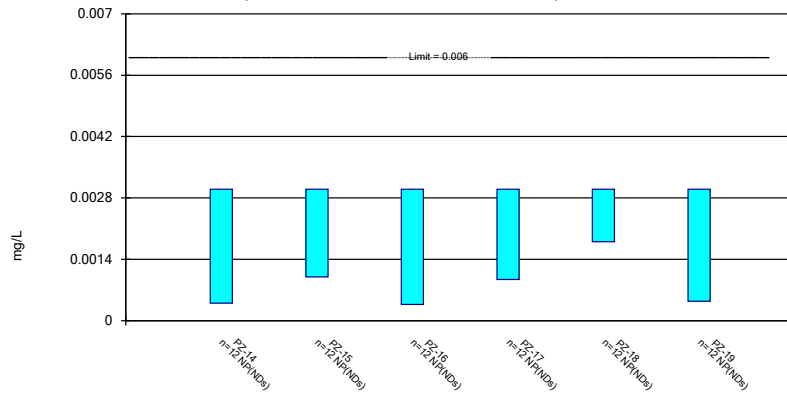
# Confidence Intervals Summary - All Results (No Significant)

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)

### Non-Parametric Confidence Interval

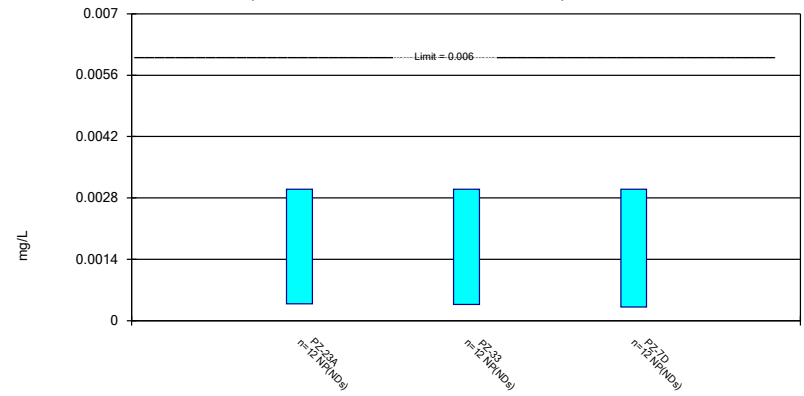
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 12/8/2020 4:04 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Non-Parametric Confidence Interval

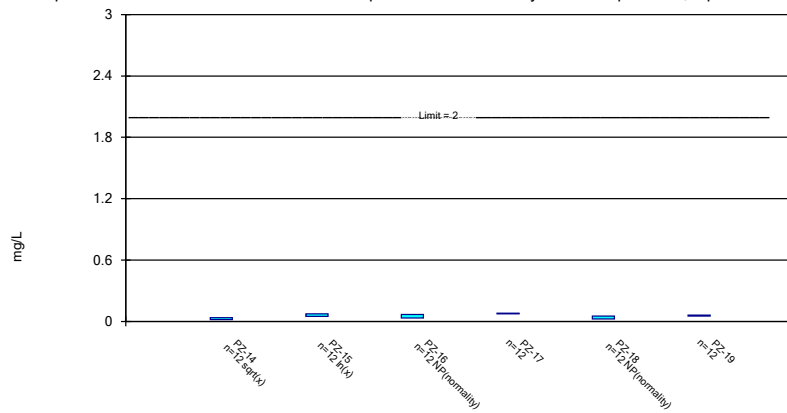
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 12/8/2020 4:04 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Parametric and Non-Parametric (NP) Confidence Interval

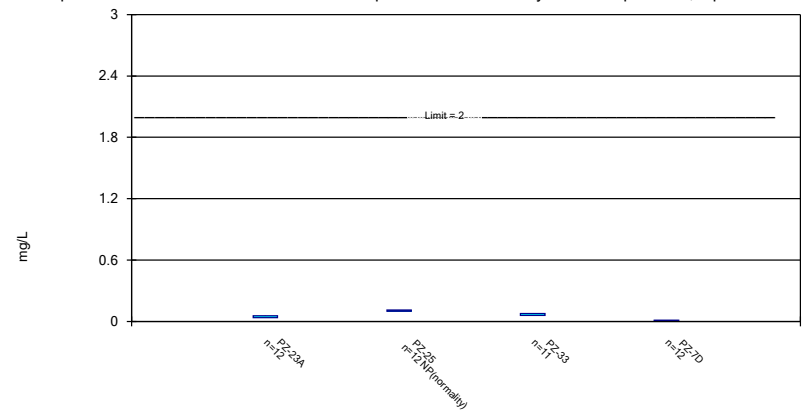
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/8/2020 4:04 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Parametric and Non-Parametric (NP) Confidence Interval

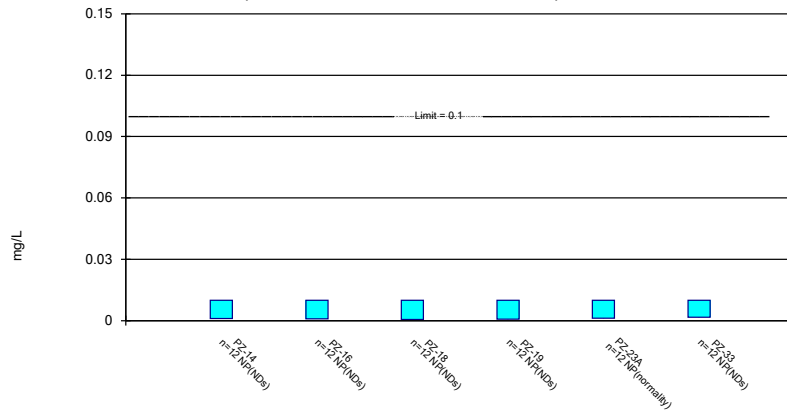
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/8/2020 4:04 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Non-Parametric Confidence Interval

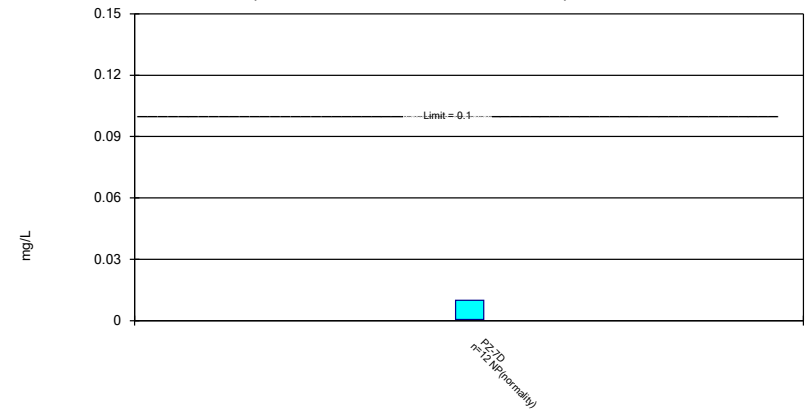
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Non-Parametric Confidence Interval

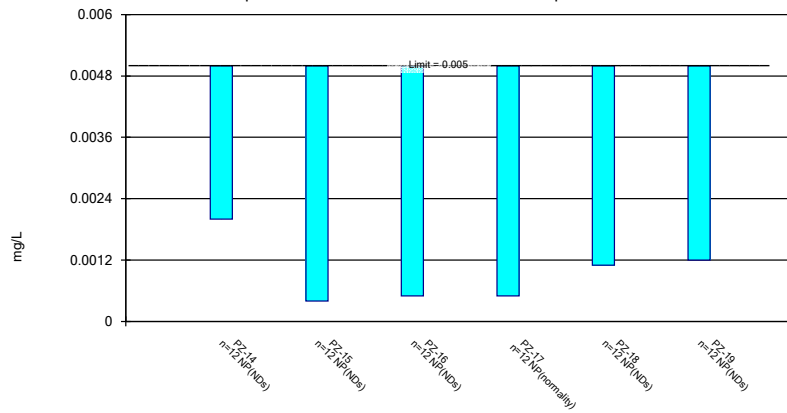
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Non-Parametric Confidence Interval

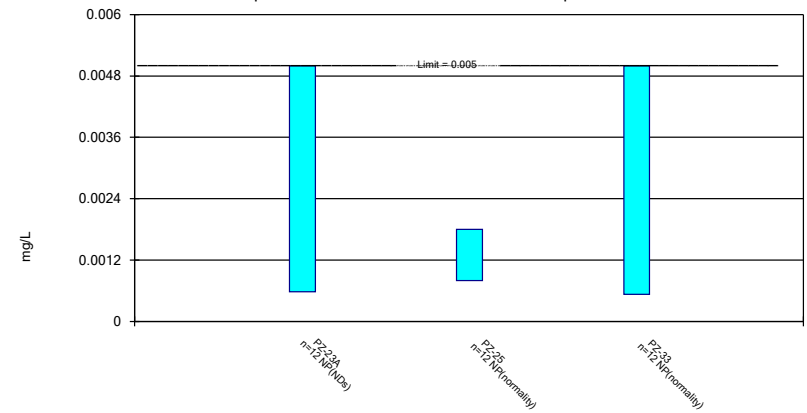
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Non-Parametric Confidence Interval

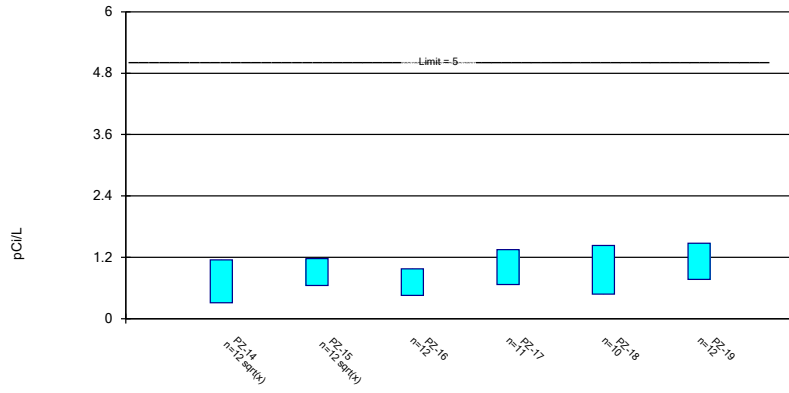
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Parametric Confidence Interval

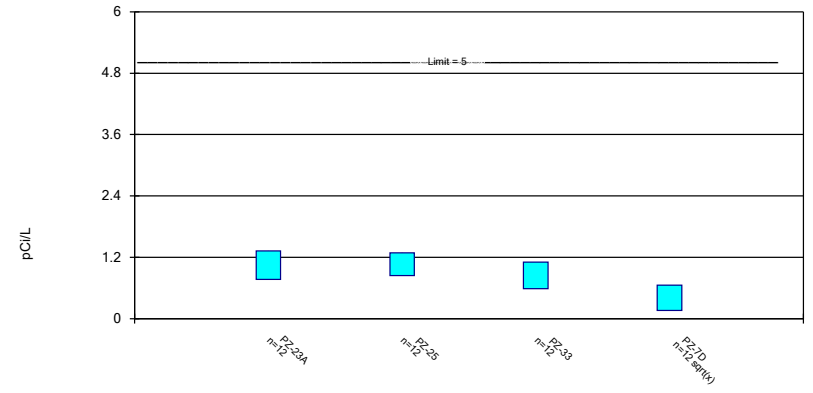
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Parametric Confidence Interval

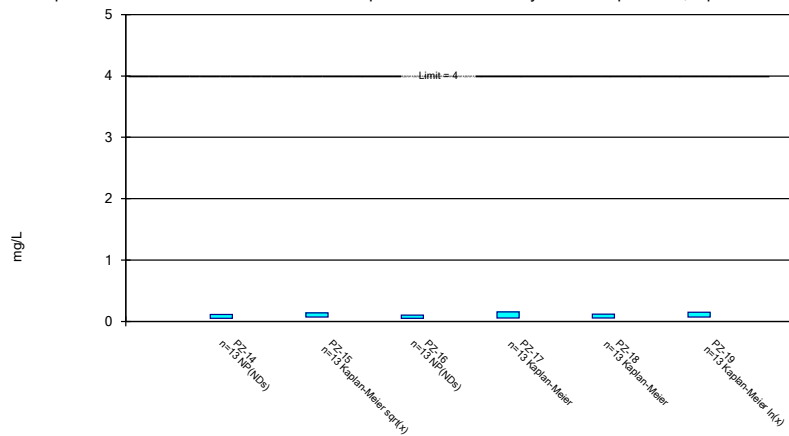
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Parametric and Non-Parametric (NP) Confidence Interval

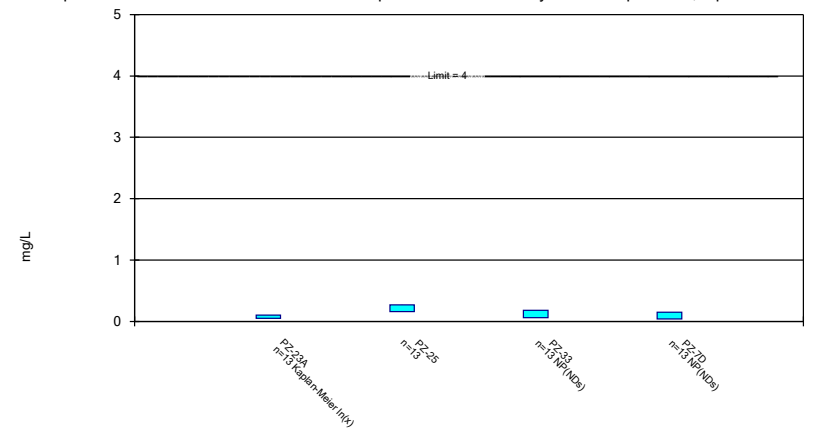
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### 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.

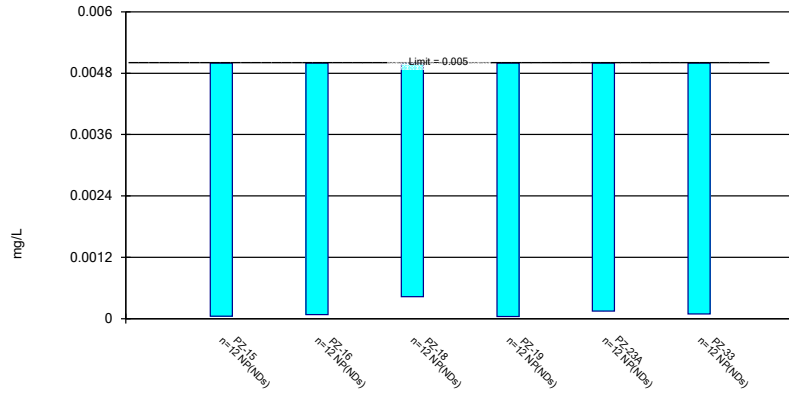


Constituent: Fluoride Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



### Non-Parametric Confidence Interval

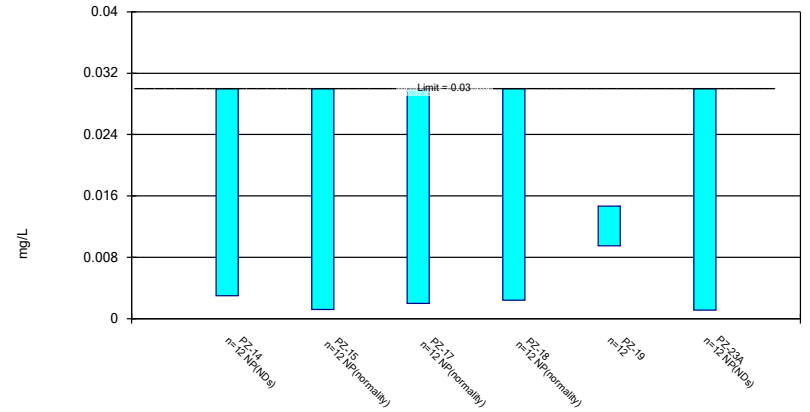
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Parametric and Non-Parametric (NP) Confidence Interval

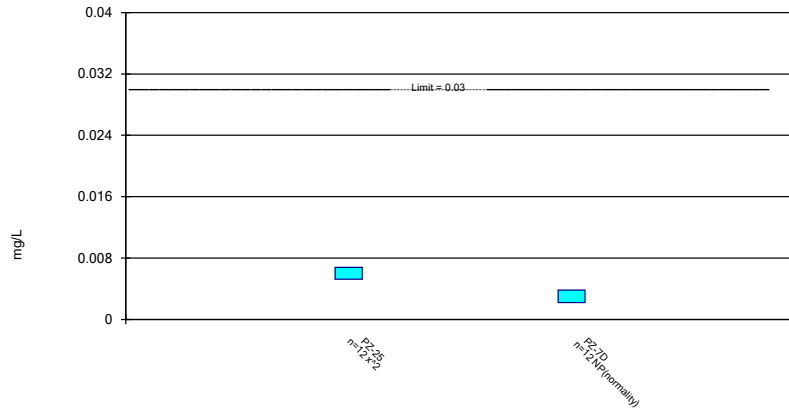
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Parametric and Non-Parametric (NP) Confidence Interval

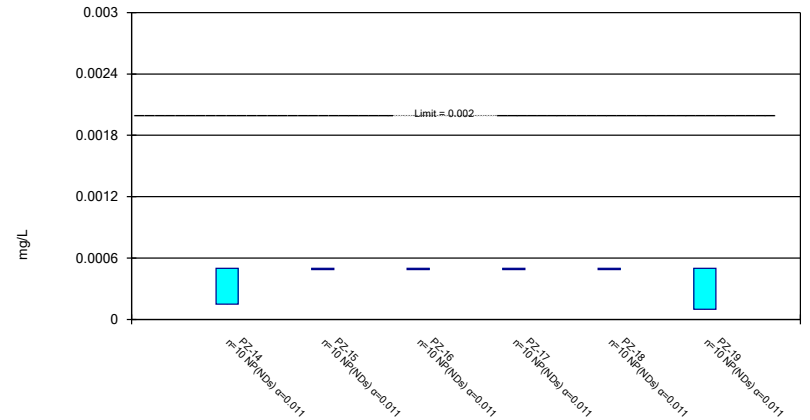
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Non-Parametric Confidence Interval

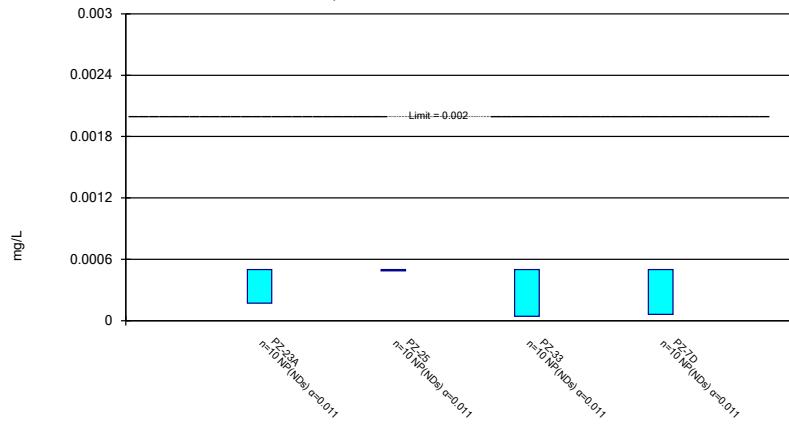
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Non-Parametric Confidence Interval

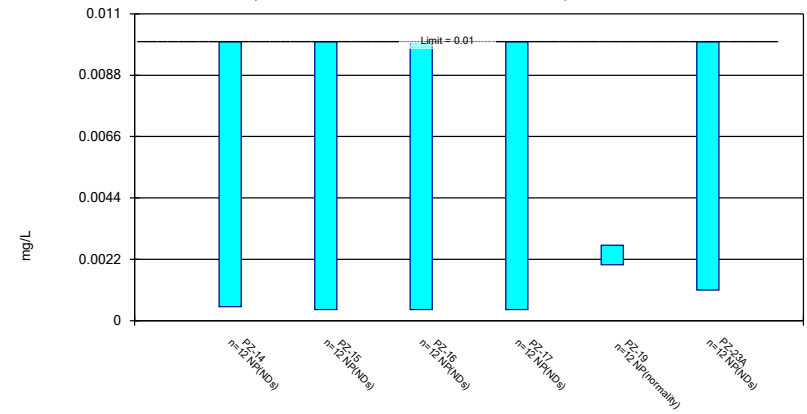
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Non-Parametric Confidence Interval

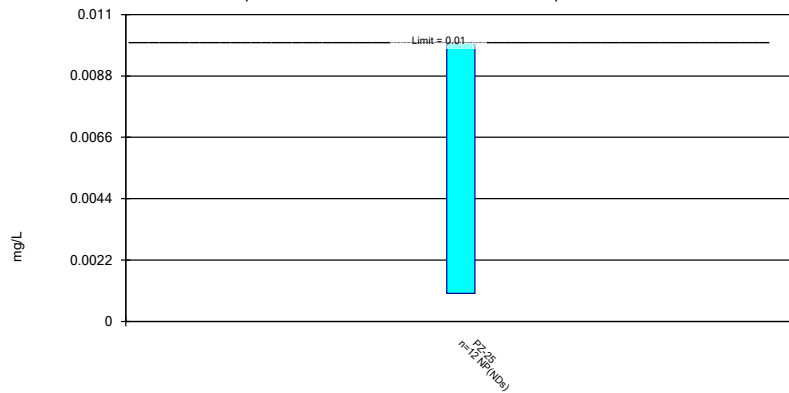
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Non-Parametric Confidence Interval

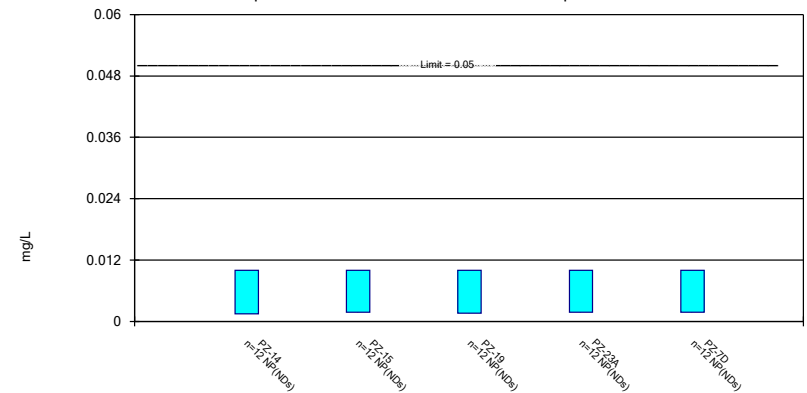
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Non-Parametric Confidence Interval

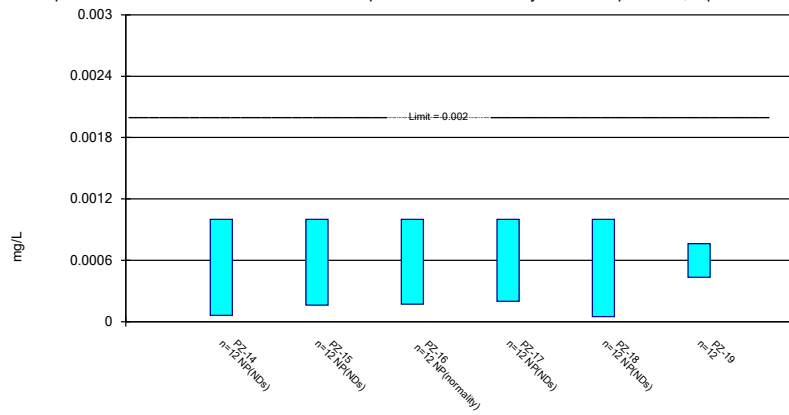
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 12/8/2020 4:05 PM  
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Parametric and Non-Parametric (NP) Confidence Interval

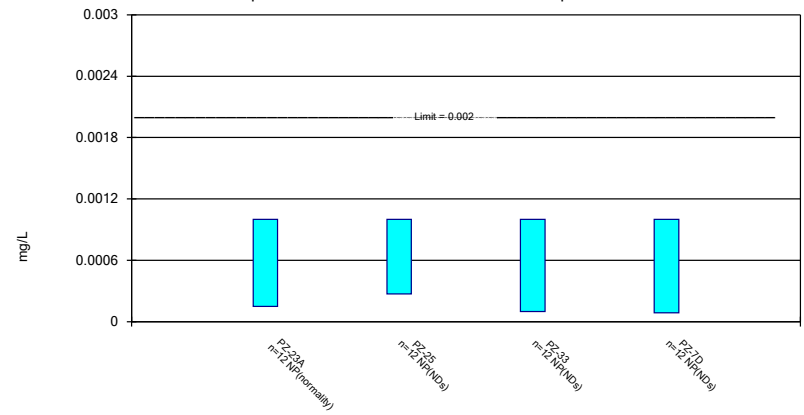
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 12/8/2020 4:05 PM  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 12/8/2020 4:05 PM  
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR